

BULLETIN 1184B

33 PAGE PRINTER SET

(ASR, KSR AND RO)

PARTS



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574-121-800TC	33 Keyboard (UK)	*5	December 1970
574-122-800TC	33 Typing Unit (UP)	*7	February 1971
574-123-800TC	33 Call Control Unit (UCC)	*6	December 1970
574-124-800TC	33 Reader (UX)	*4	December 1970
574-125-800TC	33 Tape Punch (UPE)	*4	December 1970
574-126-800TC	33 Cover and Table	*5	December 1970

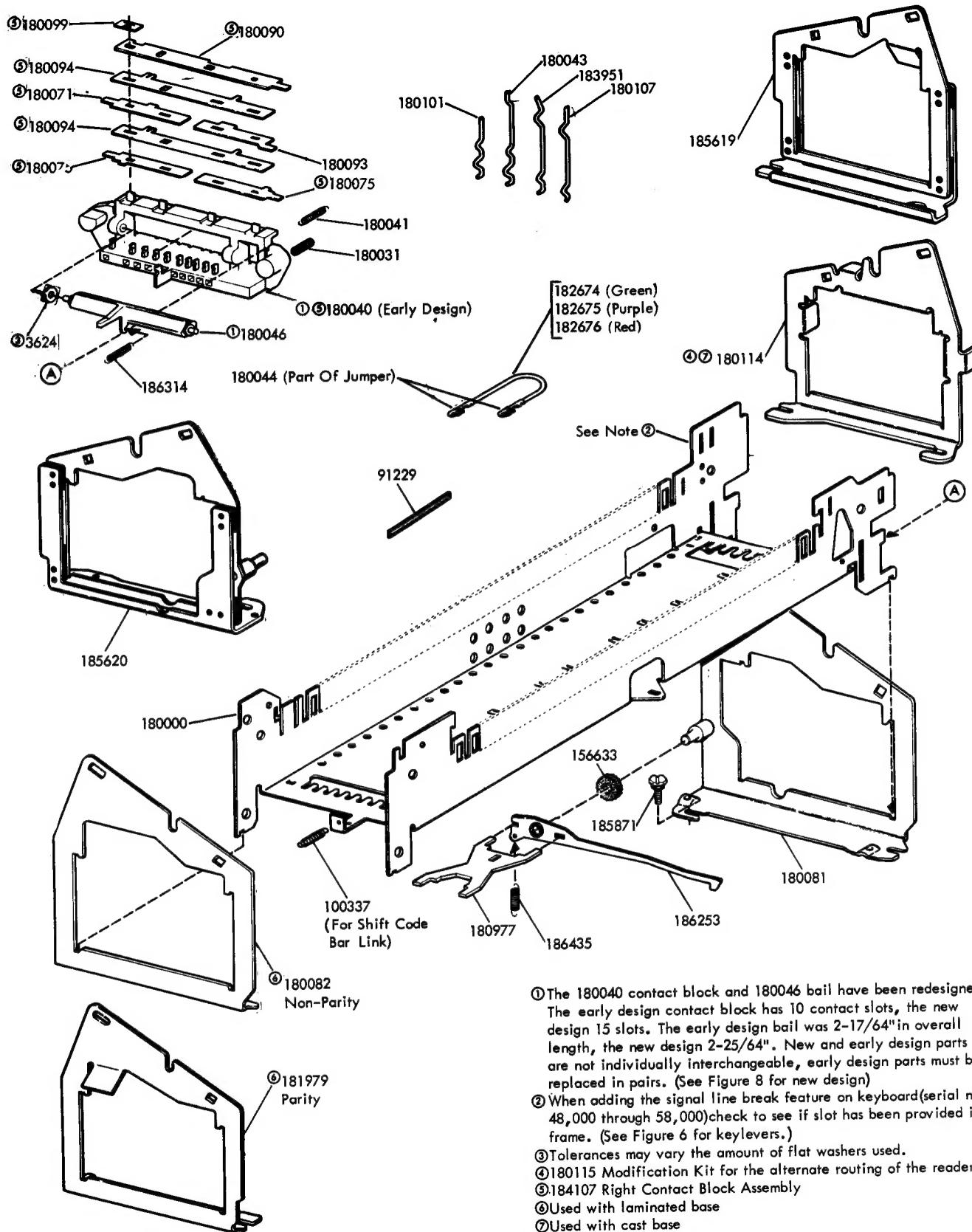
*Indicates revised sections

33 KEYBOARD (UK)

PARTS

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**Denotes a painted part.
HF-Light Olive Gray Smooth Vinyl.



- ① The 180040 contact block and 180046 bail have been redesigned. The early design contact block has 10 contact slots, the new design 15 slots. The early design bail was 2-17/64" in overall length, the new design 2-25/64". New and early design parts are not individually interchangeable, early design parts must be replaced in pairs. (See Figure 8 for new design)
- ② When adding the signal line break feature on keyboard (serial numbers 48,000 through 58,000) check to see if slot has been provided in the frame. (See Figure 6 for keylevers.)
- ③ Tolerances may vary the amount of flat washers used.
- ④ 180115 Modification Kit for the alternate routing of the reader cable
- ⑤ 184107 Right Contact Block Assembly
- ⑥ Used with laminated base
- ⑦ Used with cast base

FIGURE 1. KEYBOARD BASKET AND CONTACT BLOCK

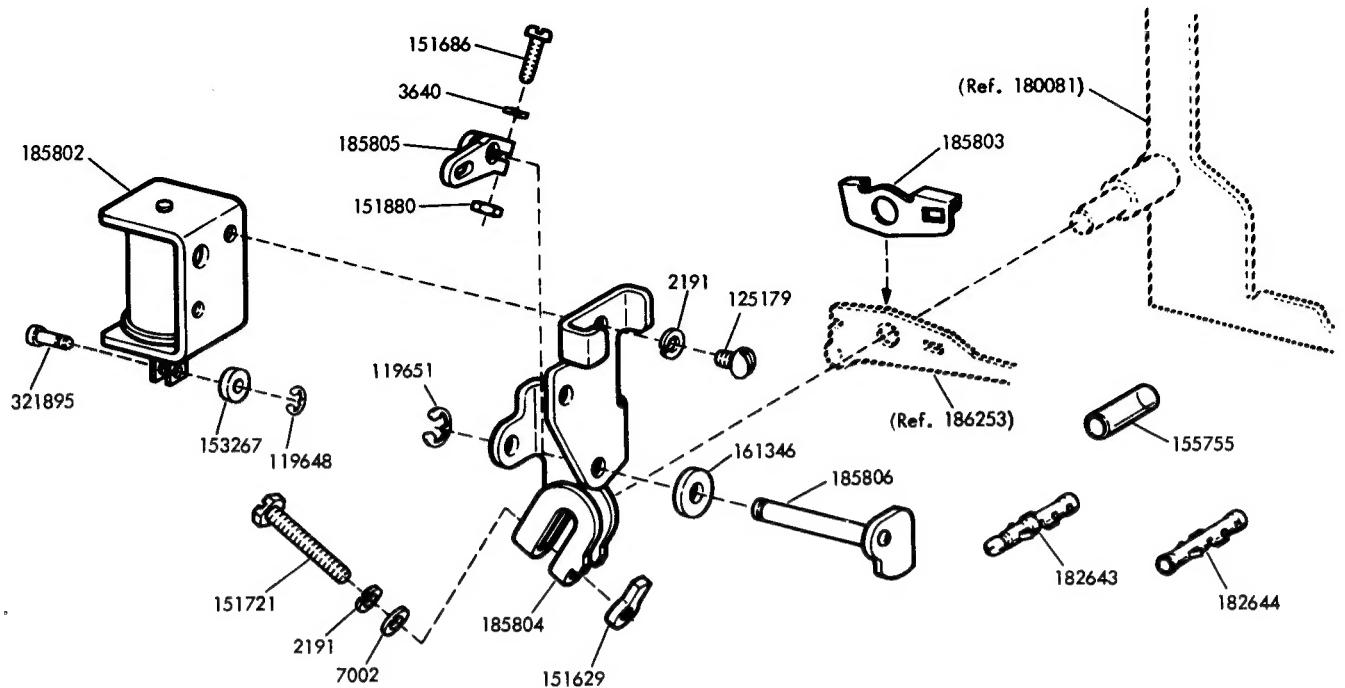


FIGURE 2. 185801 MODIFICATION KIT TO PROVIDE LOCKING FOR KEYBOARD

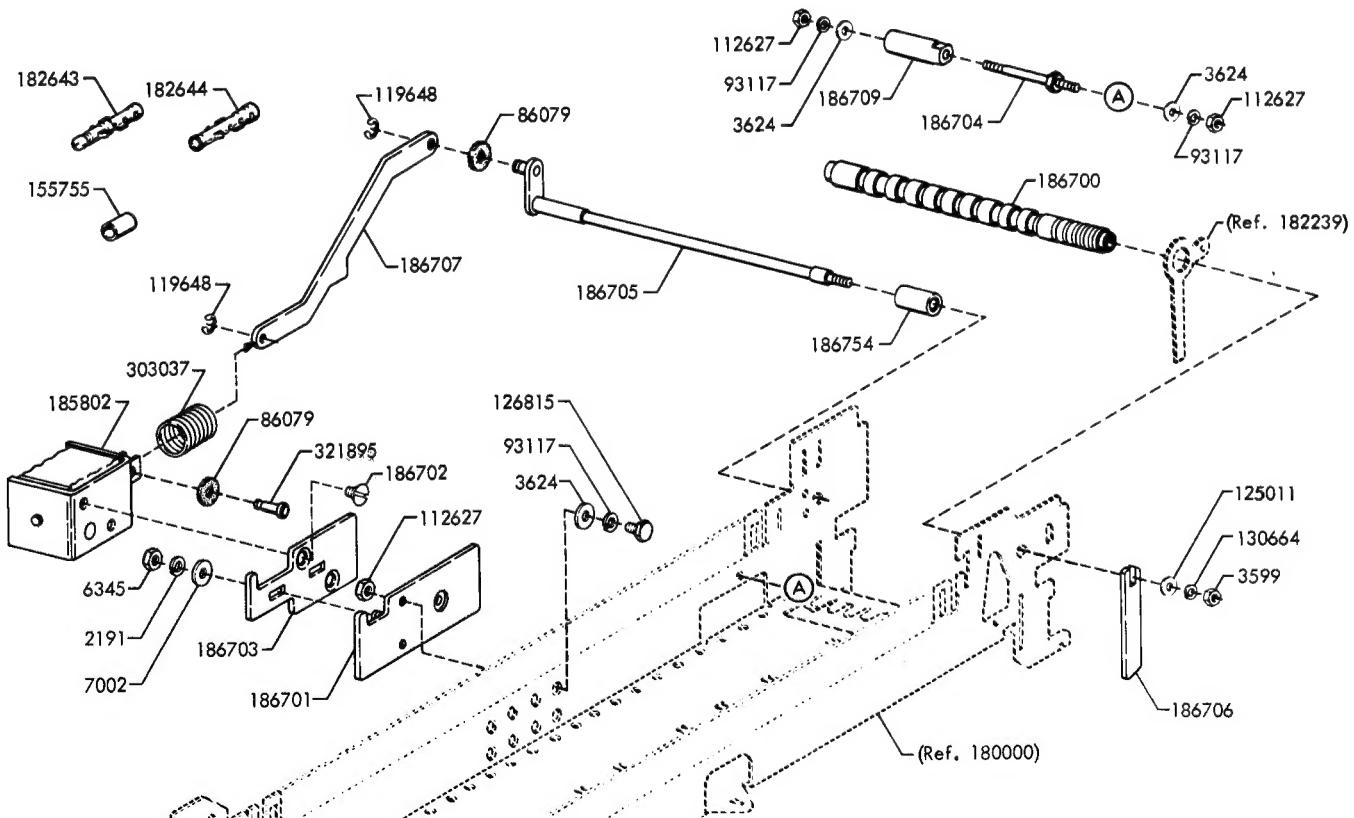
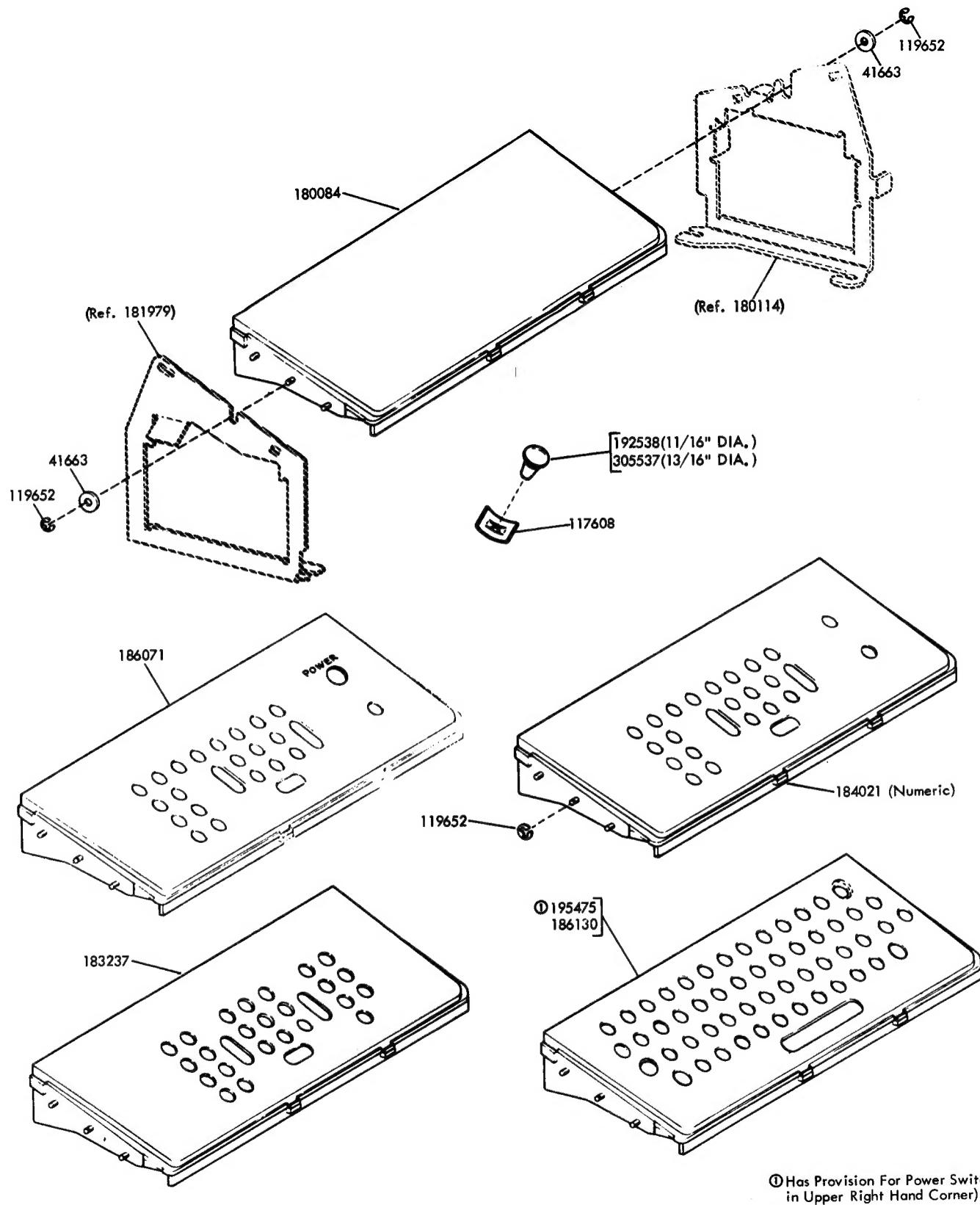
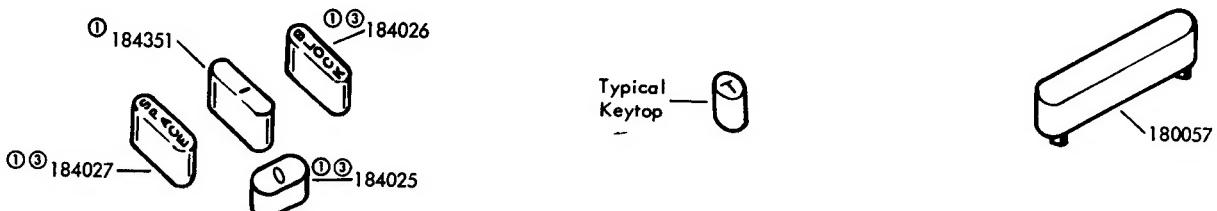


FIGURE 3. 186752 MODIFICATION KIT TO PROVIDE LOCKING FOR KEYBOARD



① Has Provision For Power Switch
in Upper Right Hand Corner)

FIGURE 4. KEYBOARD COVERS



Keytop Description			Keytop Description			Keytop Description		
UNSHIFT	SHIFT	Part Number	UNSHIFT	SHIFT	Part Number	UNSHIFT	SHIFT	Part Number
A		180181	P	@	180180	8		①③ 184341
A	SOM	*183891	Q	X ON	180171	9)	180168
A		①③ 184343	Q	X-ON	*183888	9		①③ 184342
B		180194	Q	RLF	184869	0		180169
B		①③ 184344	Q		185160			
C		180192	R	TAPE	180174	Ø		180374
C		①③ 184345	R		180260	-	=	180170
C	ETX	185165	R	FS	185161	,	<	180197
D	EOT	180183	S		180282	,	+	180199
D		180278	S	X OFF	180182	/	?	180200
D		①③ 184346	S	X OFF	*183892	:	*	180205
			S		③ 185394		(No Symbol)	① 180299
E	WRU	180173	T	TAPE	180175	-		180336
E		180259	T		180261		*	180335
E	WRU	*183889	T	PR	185162			180418
			T		③ 185395			180419
F	RU	180184	U		180177	/	■	184895
F		180273	V		180193			
G	BELL	180185			RUB OUT			①③ 180201
G		180274	W		RETURN			①③ 180202
G	BELL	*183890	X		LINE FEED			①③ 180203
H		180186	X		HERE IS			180206
H	BS	185163	Y		BREAK			180207
I	TAB	180178	Z		180191			①③ 180208
I		180262			③ 185396			180257
J		180187	1	!	180160			ALT MODE
			1		①③ 184334			ESC
			1		180264			180382
K	VT	180188	2	"	180161			EOT
K		180280	2		①③ 184335			DIV
K	□	180383	3	#	180162			STORE
K	—	185090	3		①③ 184336			TYPE ORD
L	FORM	180189	3		180164			SECT
L		180281			①③ 184338			SHIFT
L	＼	180385	4	\$	180163			CTRL
L	FORM	185164	4		①③ 184337			CTRL
M		180196	5	%	180165			FS
M	□	180384	5		①③ 184339			GS
M	—	185093	6	&	180166			RS
N	↑	180195	6		①③ 184339			US
N	BLK	185092	7	‘	180167			CLR KYBD
N	^K	185150	7		①③ 184340			CTRL
O	←	180179	7		180167			TAB
O	Γ	185089	8	(

NOTE:

All Keytops are gray with white characters except as noted.

*Gray Keytops with yellow characters.

① Used on Numeric Keyboard.

② Used with parity control.

③ Used on Numeric Self-Contained Keyboard

FIGURE 5. KEYTOPS

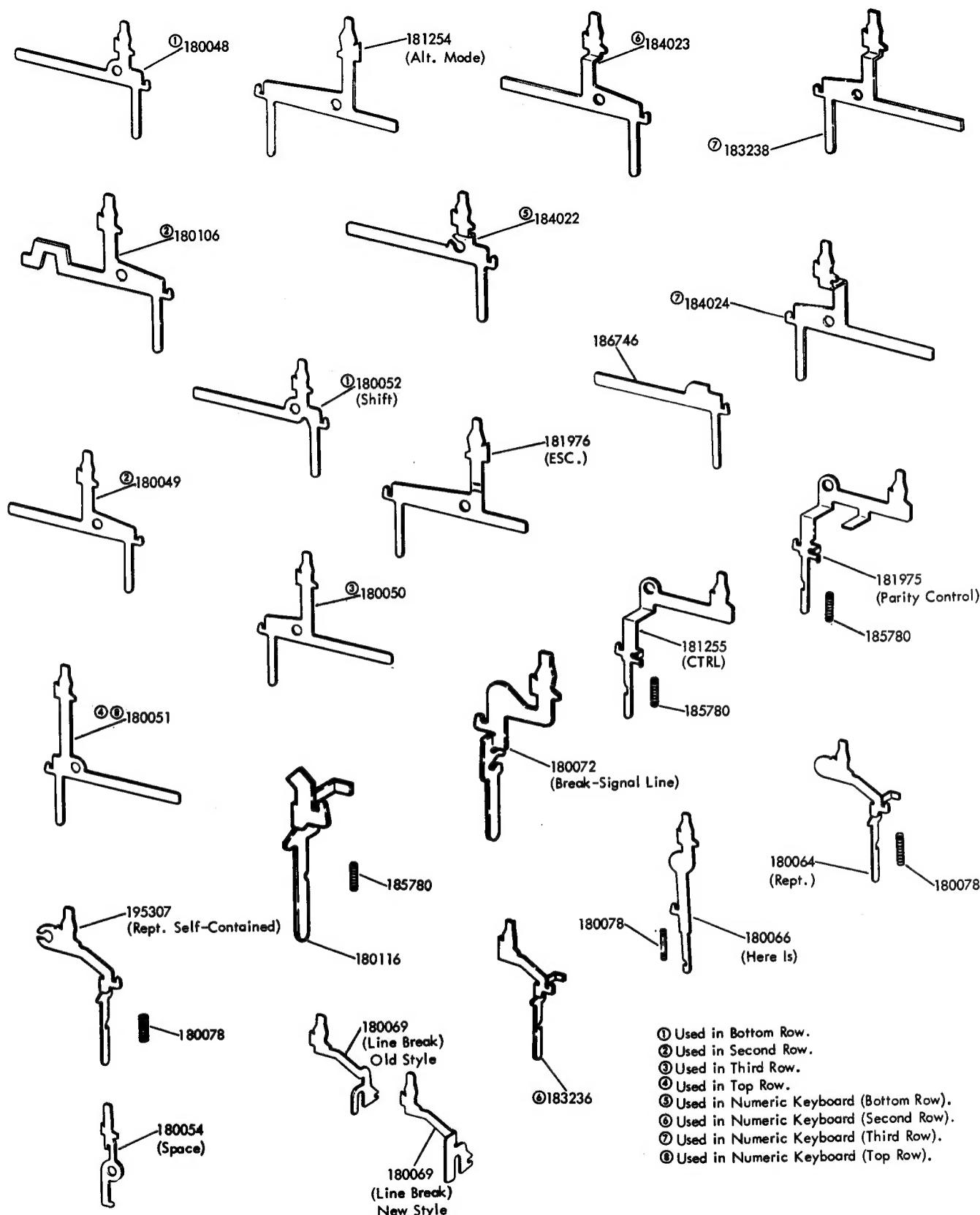


FIGURE 6. KEYLEVERS

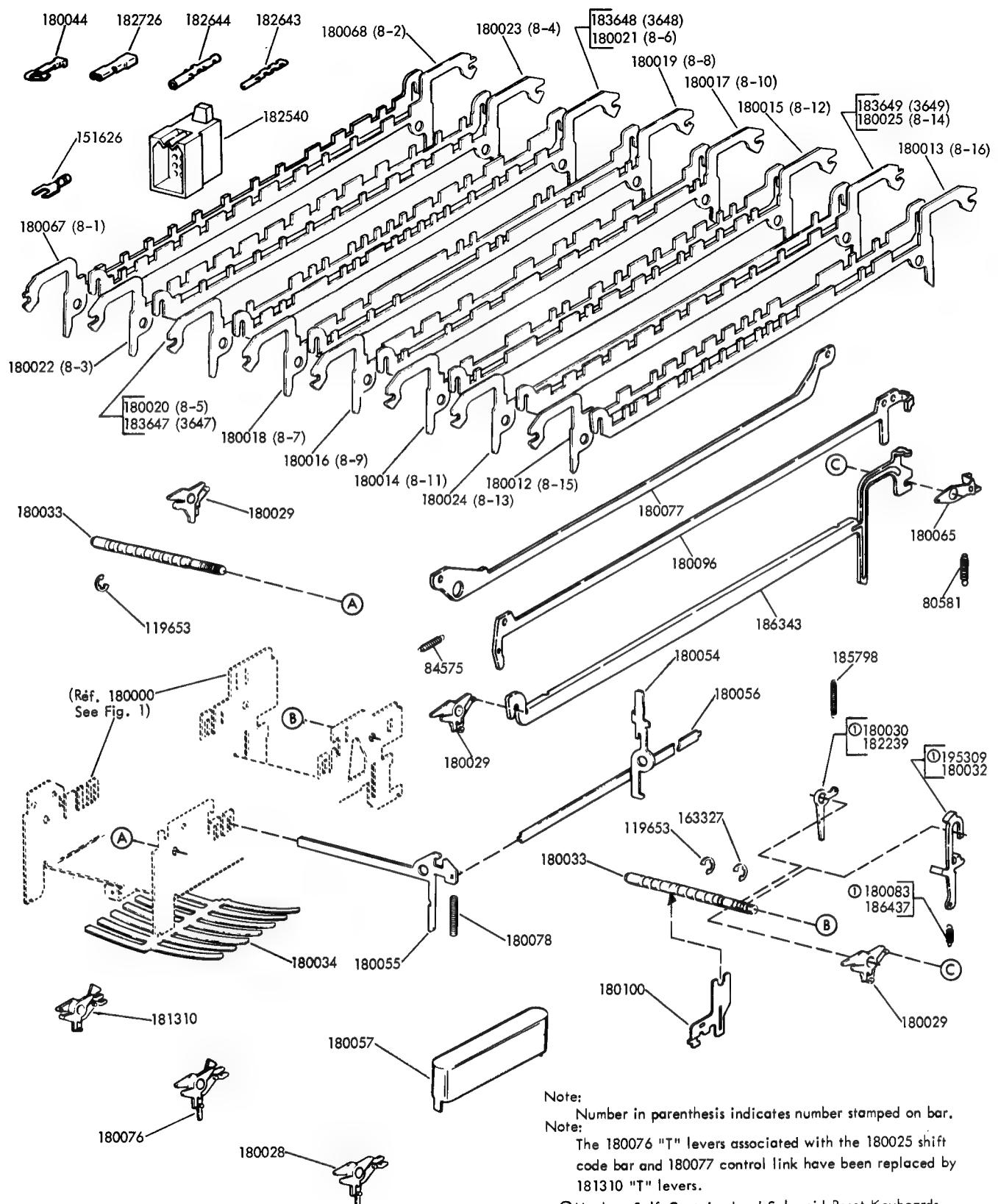


FIGURE 7. CODE BAR MECHANISM

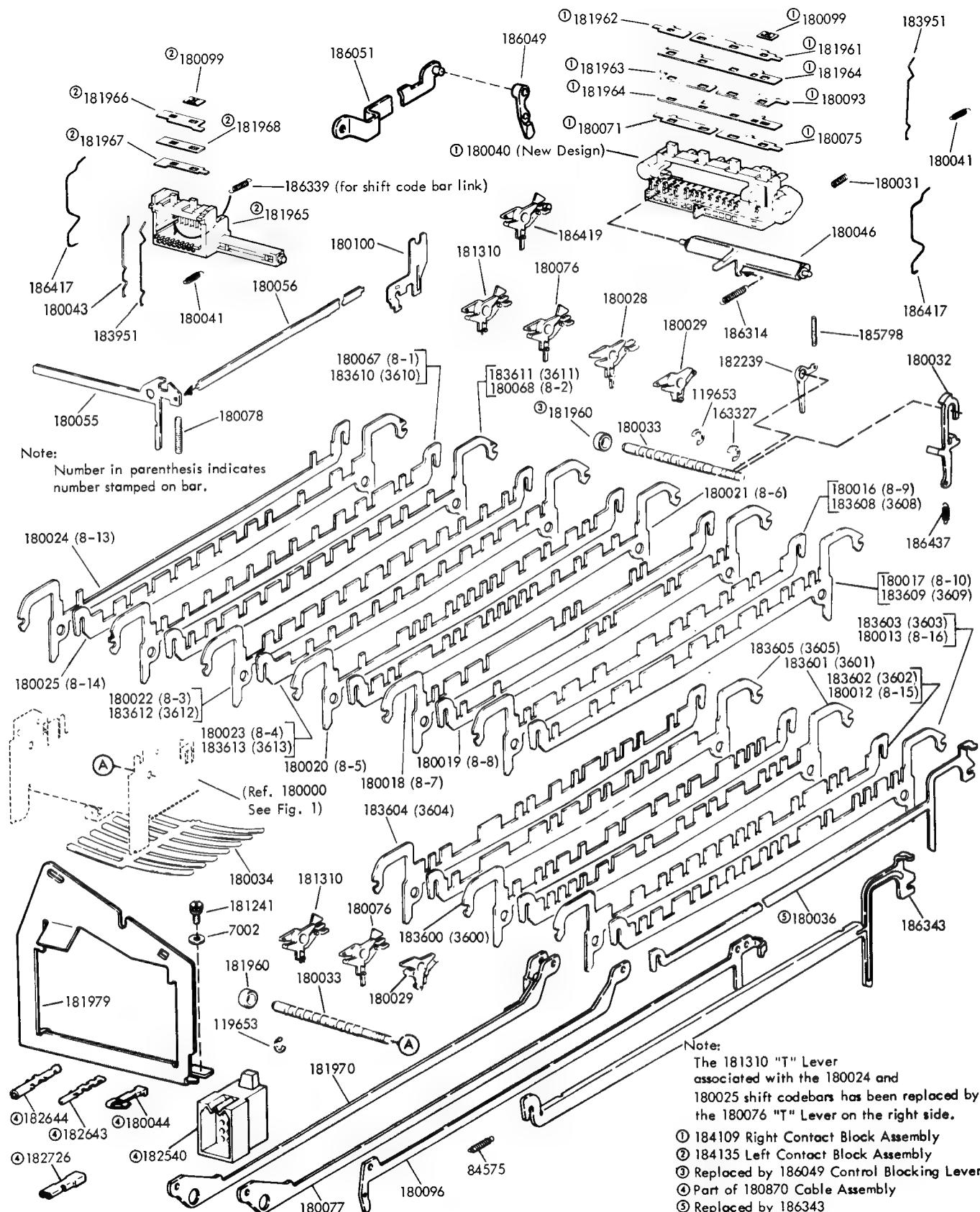


FIGURE 8. CODE BAR MECHANISM FOR UNITS EQUIPPED WITH EVEN PARITY

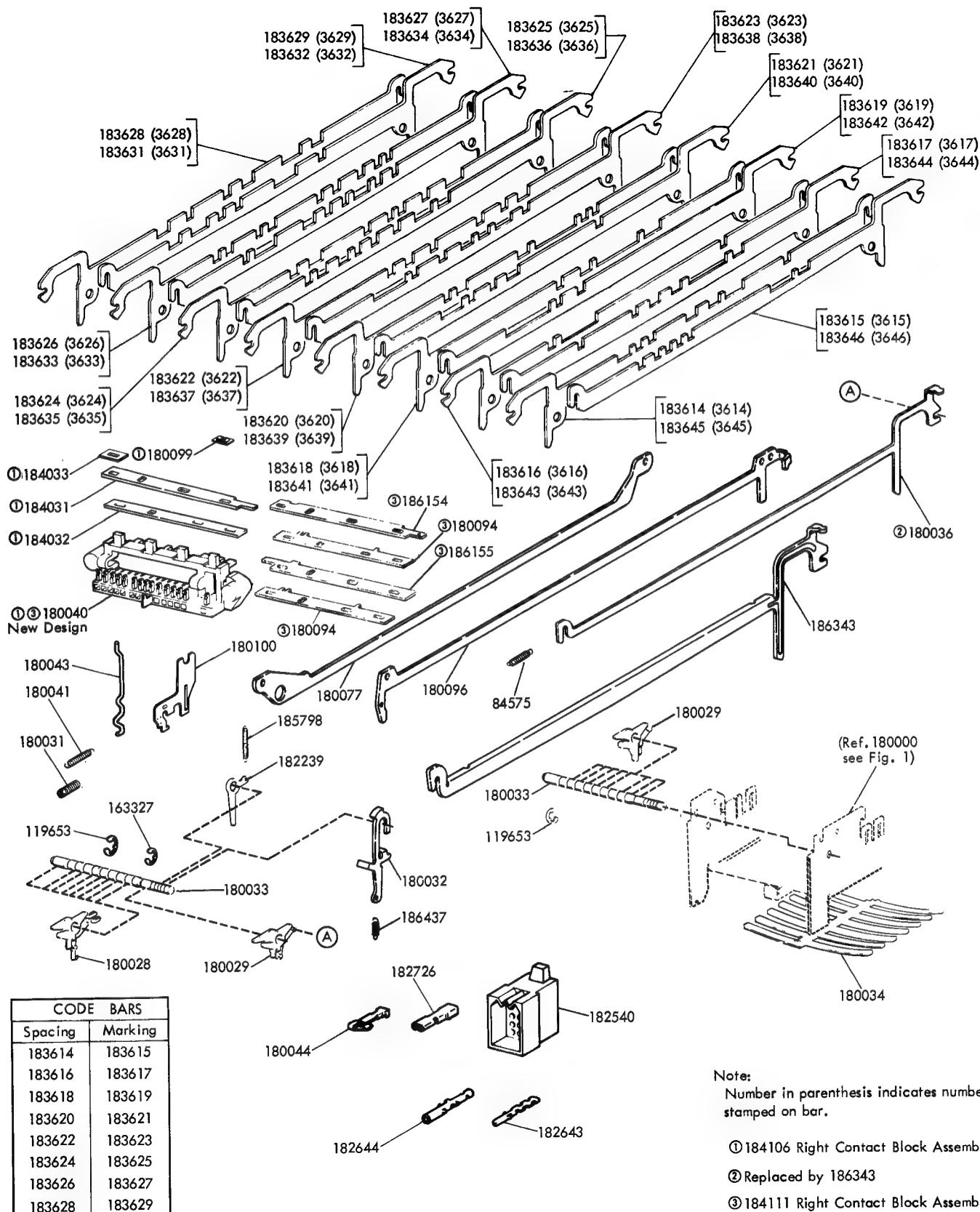


FIGURE 9. CODEBAR MECHANISM FOR NUMERIC KEYBOARD

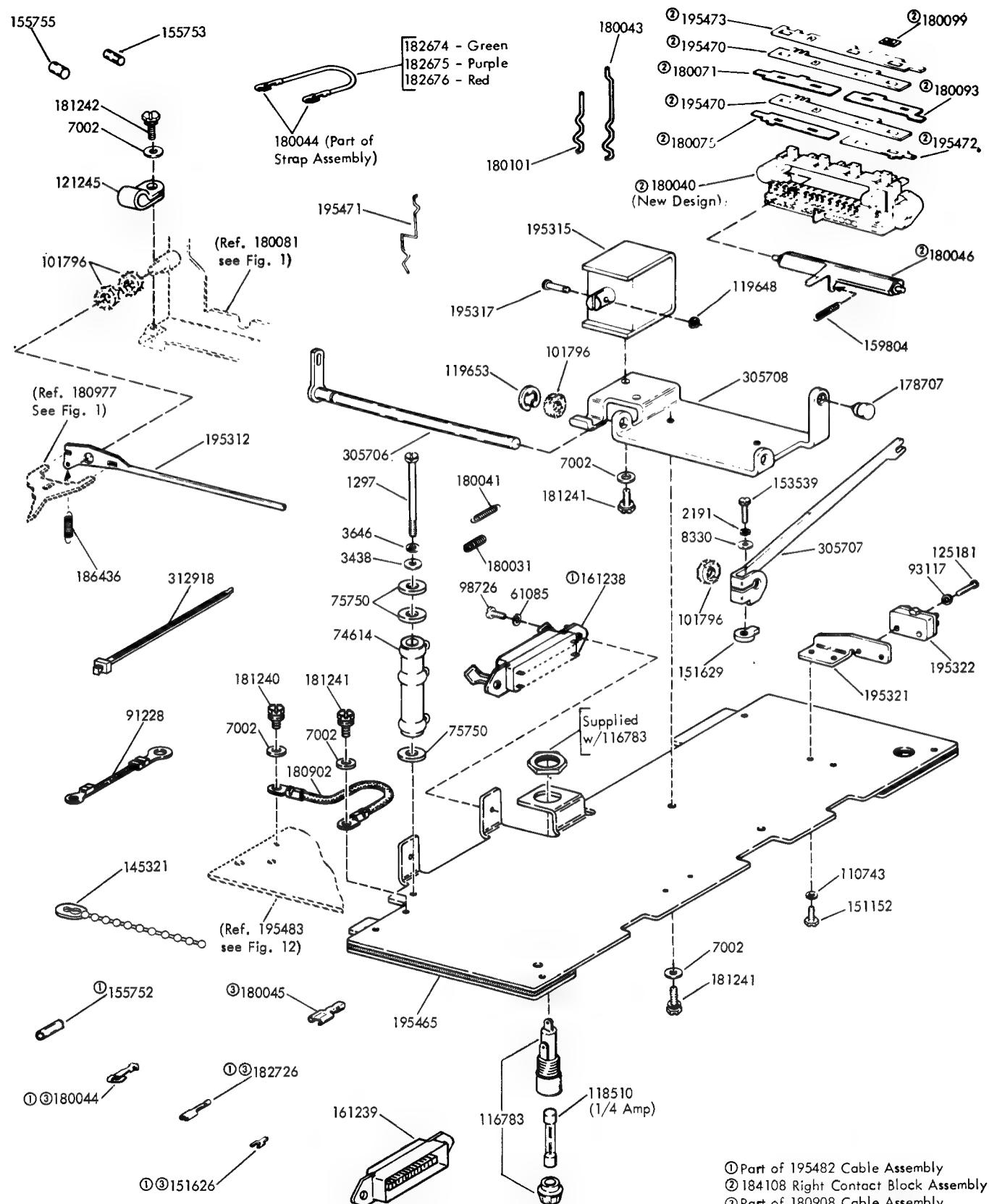


FIGURE 10. RESET MECHANISM FOR SELF-CONTAINED AND SOLENOID RESET KEYBOARDS

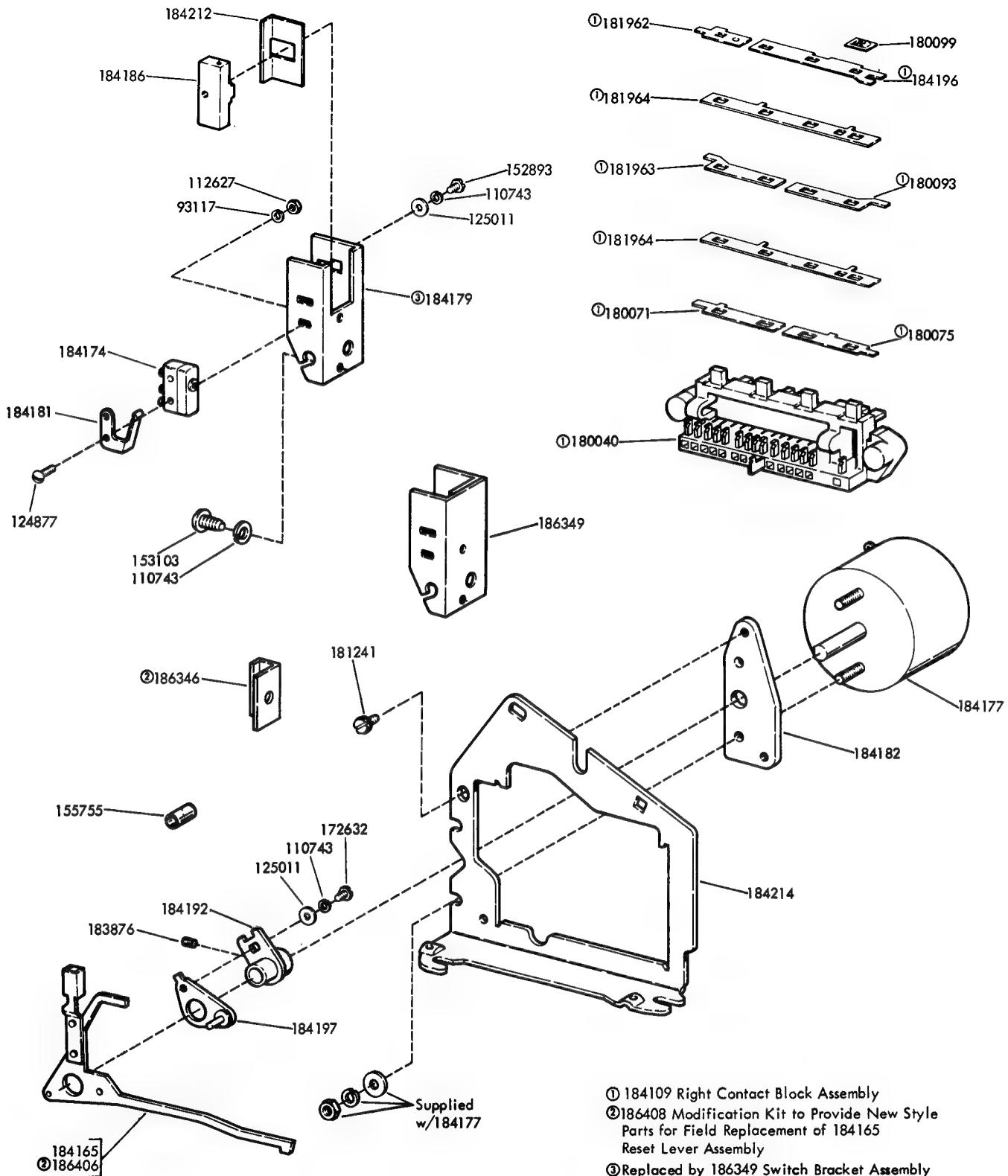
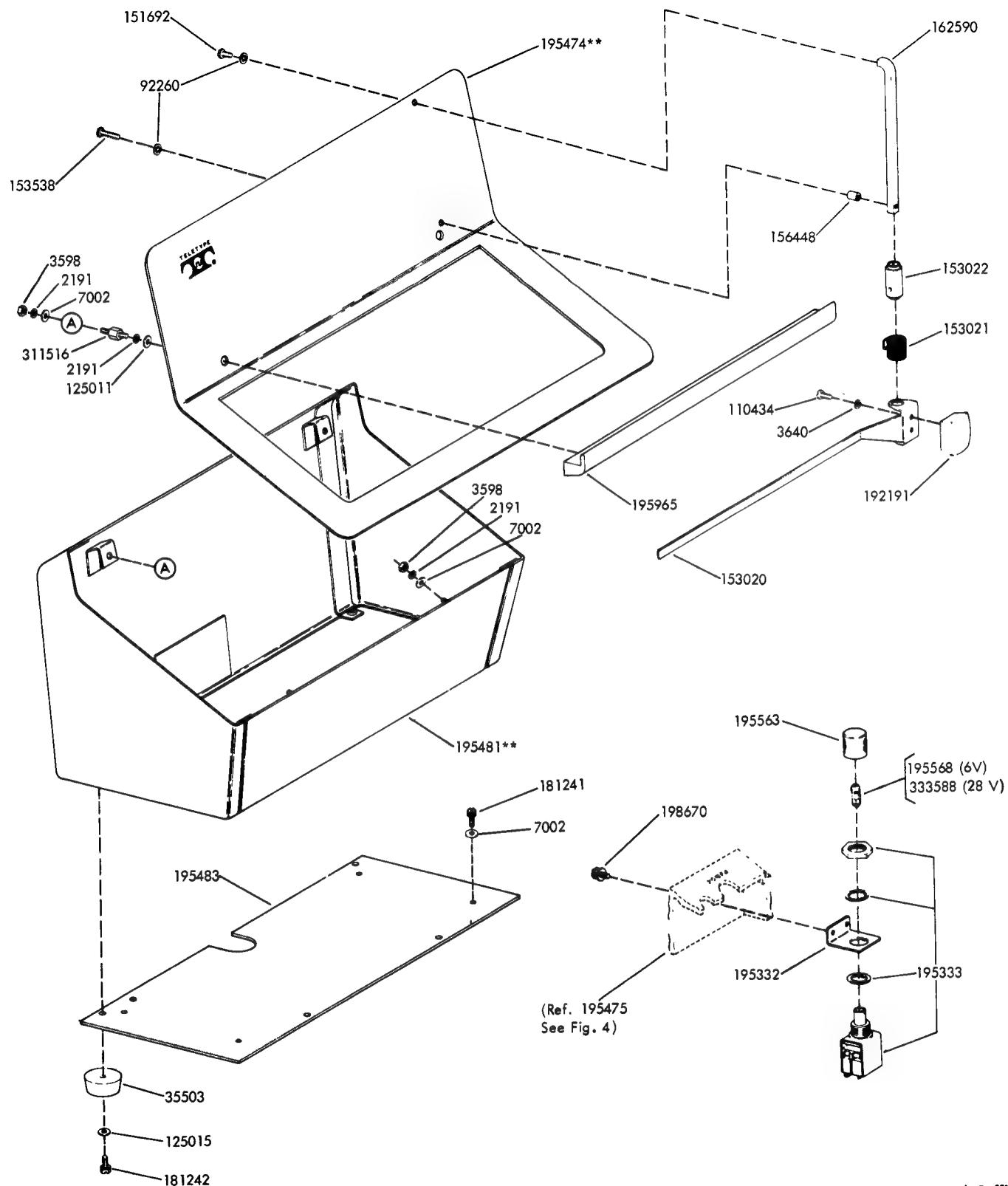


FIGURE 11. RESET MECHANISM FOR EVEN PARITY KEYBOARD



**Refer to Page 1 for Finish Suffix

FIGURE 12. COVER FOR SELF-CONTAINED AND SOLENOID RESET KEYBOARDS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1297	Screw, 6-40 x 2-7/16 Fil 10	151692	Screw, 6-40 x 3/16 Fil 12	180033	Shaft 7,8,9
2191	Lockwasher 3,10,12	151721	Screw, 6-40 x 3/4 Hex 3	180034	Spring, Flat 7,8,9
3438	Washer, Flat 10	151880	Nut, 4-40 Hex 3	180036	Bar, Universal Code 8,9
3598	Nut, 6-40 Hex 12	152893	Screw, 4040 x 1/4 Hex 11	180040	Block, Contact 2,8,9,10,11
3599	Nut, 4-40 Hex 3	153020	Guide, Line 12	180041	Spring 2,8,9,10
3624	Washer, Flat 2,3	153022	Bushing 12	180043	Wire, Contact 2,8,9,10
3640	Lockwasher 3,12	153103	Screw, 4-40 Self-Tapping 11	180044	Terminal, Tab Type 2,7,8,9,10
3646	Lockwasher 10	153267	Washer, Felt 3	180045	Terminal, Tab Type 10
6345	Nut, 6-32 Hex 3	153538	Screw, 6-40 x 7/16 Hex 12	180046	Bail, Contact Reset 2,8,10
7002	Washer, Flat 3,8,10,12	153539	Screw, 6-40 x 11/16 Hex 10	180048	Keylever 6
8330	Washer, Flat 10	155752	Sleeve, 5/64 ID x 1/2 Lg	180049	Keylever 6
35503	Foot, Rubber 12		Insulating 10	180050	Keylever 6
41663	Washer, Flat 4	155753	Sleeve, 1/8 ID x 1/2 Lg	180051	Keylever 6
61085	Lockwasher 10		Insulating 10	180052	Keylever, Shift 6
74614	Resistor, 2,600 Ohm 10	155755	Sleeve, 11/64 ID x 5/8 Lg	180054	Keylever, Spacebar 6,7
75750	Washer, Insulating 10		Insulating 3,10,11	180055	Keylever, Spacebar 7,8
80581	Spring 7	156448	Bushing 12	180056	Link, Space 7,8
84575	Spring 7,8,9	156633	Washer, Felt 2	180057	Spacebar 5,7
86079	Washer, Felt 3	159804	Spring 10	180061	Keytop 5
91228	Strap, 2-1/2" Braided 10	161238	Connector, 36 Pt	180064	Keylever, Repeat 6
91229	Strap, 2" Braided 2		Receptacle 10	180065	Lever, Link Break 7
92260	Lockwasher 12	161239	Connector, 36 Pt Plug 10	180066	Keylever 6
93117	Lockwasher 3,10,11	161346	Washer, Felt 3	180067	Bar, No. 7 Rear Code 7,8
98726	Screw, 3-48 x 1/4 Fil 10	162590	Shaft 12	180068	Bar, No. 7 Front Code 7,8
100337	Spring 2	163327	Ring, Retaining 7,8,9	180069	Keylever, Line Break 6
101796	Washer, Felt 10	172632	Screw, 4-40 x 3/16 Hex 11	180071	Terminal 2,8,10,11
110434	Screw, 4-40 x 3/16 Fil 12	178707	Bumper, Rubber 10	180072	Keylever, Line Break 6
110743	Lockwasher 10,11	180000	Frame, Keyboard 2,3,7,8,9	180075	Terminal, Line Break 2,8,10,11
112627	Nut, 2-56 Hex 3,11	180012	Codebar No. 1 Rear 7,8		
116783	Holder, Fuse 10	180013	Codebar No. 1 Front 7,8	180076	Lever, No. 5 Pulse 7,8
117608	Nut, Speed 4	180014	Codebar No. 2 Rear 7	180077	Link 7,8,9
118510	Fuse, 1/4 Amp 10	180015	Codebar No. 2 Front 7	180078	Spring, Compression 6,7,8
119648	Ring, Retaining 3,10	180016	Codebar No. 3 Rear 7,8	180081	Bracket, Right Keyboard 2,3,10
119651	Ring, Retaining 3	180017	Codebar No. 3 Front 7,8		
119652	Ring, Retaining 4	180018	Codebar No. 4 Rear 7,8	180082	Bracket, Left Keyboard 2
119653	Ring, Retaining 7,8,9,10	180019	Codebar No. 4 Front 7,8	180083	Spring 7
121245	Clamp, 5/16 ID Cable 10	180020	Codebar No. 5 Rear 7,8	180084	Cover, Keyboard 4
124877	Screw, 2-56 x 1/2 Rd 11	180021	Codebar No. 5 Front 7,8	180090	Terminal, Common 2
125011	Washer, Flat 3,11,12	180022	Codebar No. 6 Rear 7,8	180093	Terminal 2,8,10,11
125015	Washer, Flat 12	180023	Codebar No. 5 Front 7,8	180094	Insulator 2,9
125179	Screw, 6-32 x 3/16 Rd 3	180024	Codebar No. 5 Rear 7,8	180096	Link 7,8,9
125181	Screw, 2-56 x 3/8 Fil 10	180025	Codebar No. 5 Front 7,8	180099	Fastener 2,8,9,10,11
126815	Screw, 2-56 x 15/64 Hex 3	180028	Lever 7,8,9	180100	Guide 7,8,9
130664	Lockwasher 3	180029	Lever 7,8,9	180101	Wire, Contact 2,10
145321	Tie, Cable 10	180030	Lever, Latch 7	180106	Keylever 6
151152	Screw, 4-40 x 3/16 Hex 10	180031	Spring, Compression 2,8,9,10	180107	Detent 2
151626	Terminal 7,10	180032	Lever, Non-Repeat 7,8,9	180114	Bracket, Left Keyboard 2,4
151629	Nut, 6-40 Lug 3,10				
151686	Screw, 6-40 x 3/8 Fil 3				

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
180115	Modification Kit 2	180259	Keytop 5	181968	Insulator 8
180116	Keylever 6	180260	Keytop 5	181970	Link w/Extension 8
180160	Keytop 5	180261	Keytop 5	181971	Keytop 5
180161	Keytop 5	180262	Keytop 5	181975	Keylever 6
180162	Keytop 5	180264	Keytop 5	181976	Keylever 6
180163	Keytop 5	180273	Keytop 5	181979	Bracket, Left Keyboard 2,4,8
180164	Keytop 5	180274	Keytop 5	182239	Latchlever 3,7,8,9
180165	Keytop 5	180278	Keytop 5	182540	Connector, 15 Pt Plug Type 7,8,9
180166	Keytop 5	180280	Keytop 5	182643	Terminal, Plug Type 3,7,8,9
180167	Keytop 5	180281	Keytop 5	182644	Terminal, Receptacle Type 3,7,8,9
180168	Keytop 5	180282	Keytop 5	182674	Jumper, 2-1/4" Green 2,10
180169	Keytop 5	180299	Keytop 5	182675	Jumper, 2-1/4" Purple 2,10
180170	Keytop 5	180335	Keytop 5	182676	Jumper, 2-1/4" Red 2,10
180171	Keytop 5	180336	Keytop 5	182726	Terminal, Receptacle Type 7,8,9,10
180172	Keytop 5	180373	Keytop 5	183236	Keylever, Repeat 6
180173	Keytop 5	180374	Keytop 5	183237	Cover, Keyboard 4
180174	Keytop 5	180382	Keytop 5	183238	Keylever 6
180175	Keytop 5	180383	Keytop 5	183600	Codebar 8
180176	Keytop 5	180384	Keytop 5	183601	Codebar 8
180177	Keytop 5	180385	Keytop 5	183602	Codebar 8
180178	Keytop 5	180418	Keytop 5	183603	Codebar 8
180179	Keytop 5	180419	Keytop 5	183604	Codebar 8
180180	Keytop 5	180440	Keytop 5	183605	Codebar 8
180181	Keytop 5	180441	Keytop 5	183608	Codebar 8
180182	Keytop 5	180442	Keytop 5	183609	Codebar 8
180183	Keytop 5	180443	Keytop 5	183610	Codebar 8
180184	Keytop 5	180444	Keytop 5	183611	Codebar 8
180185	Keytop 5	180870	Cable Assembly 8	183612	Codebar 8
180186	Keytop 5	180902	Jumper, 3-1/2 In. Braided 10	183613	Codebar 8
180187	Keytop 5	180908	Cable Assembly 10	183614	Codebar 9
180188	Keytop 5	180977	Plate w/Stud 2,10	183615	Codebar 9
180189	Keytop 5	181240	Screw, w/Lockwasher 6-40 x 3/16 Hex	183616	Codebar 9
180190	Keytop 5	181241	Screw, w/Lockwasher, 6-40 x 1/4 Hex 8,10,11,12	183617	Codebar 9
180191	Keytop 5	181242	Screw, w/Lockwasher, 6-40 x 5/16 Hex 10,12	183618	Codebar 9
180192	Keytop 5	181253	Keytop 5	183619	Codebar 9
180193	Keytop 5	181254	Keylever 6	183620	Codebar 9
180194	Keytop 5	181255	Keylever 6	183621	Codebar 9
180195	Keytop 5	181310	Lever 7,8	183622	Codebar 9
180196	Keytop 5	181860	Spacer, .144" Thk 8	183623	Codebar 9
180197	Keytop 5	181861	Terminal 8	183624	Codebar 9
180198	Keytop 5	181960	Spacer, .144" Thk 8	183625	Codebar 9
180199	Keytop 5	181962	Terminal 8,11	183626	Codebar 9
180200	Keytop 5	181963	Terminal, Parity 8,11	183627	Codebar 9
180201	Keytop 5	181964	Insulator 8,11	183628	Codebar 9
180202	Keytop 5	181965	Block, Contact 8		
180203	Keytop 5	181966	Terminal 8		
180205	Keytop 5	181967	Terminal 8		
180206	Keytop 5				
180207	Keytop 5				
180208	Keytop 5				
180257	Keytop 5				

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183629	Codebar 9	184177	Solenoid, Rotary 11	185802	Solenoid 3
183631	Codebar 9	184179	Bracket 11	185803	Clip 3
183632	Codebar 9	184181	Actuator 11	185804	Bracket 3
183633	Codebar 9	184182	Plate 11	185805	Lever 3
183634	Codebar 9	184186	Switch, Reed 11	185806	Shaft 3
183635	Codebar 9	184192	Plate w/Hub 11	185871	Screw w/Lockwasher, 8-32 x 3/8 Hex 2
183636	Codebar 9	184196	Terminal 11	186049	Lever 8
183637	Codebar 9	184197	Plate w/Stud 11	186051	Link 8
183638	Codebar 9	184212	Guide 11	186071	Cover 4
183639	Codebar 9	184214	Bracket, Right 11	186130	Cover 4
183640	Codebar 9	184334	Keytop 5	186154	Terminal 9
183641	Codebar 9	184335	Keytop 5	186155	Terminal 9
183642	Codebar 9	184336	Keytop 5	186253	Lever w/Hub 2,3
183643	Codebar 9	184337	Keytop 5	186314	Spring 2,8
183644	Codebar 9	184338	Keytop 5	186339	Spring 8
183645	Codebar 9	184339	Keytop 5	186343	Codebar 7,8,9
183646	Codebar 9	184340	Keytop 5	186346	Shield, Magnetic 11
183647	Codebar 7	184341	Keytop 5	186349	Bracket 11
183648	Codebar 7	184342	Keytop 5	186406	Lever, Reset 11
183649	Codebar 7	184343	Keytop 5	186408	Modification Kit 11
183876	Screw, 6-32 Set 11	184344	Keytop 5	186417	Wire, Contact 8
183888	Keytop 5	184345	Keytop 5	186419	Lever 8
183889	Keytop 5	184346	Keytop 5	186435	Spring 2
183890	Keytop 5	184351	Keytop 5	186436	Spring 10
183891	Keytop 5	184734	Keytop 5	186437	Spring 7,8,9
183892	Keytop 5	184815	Keytop 5	186700	Shaft 3
183951	Wire, Contact 2,8	184816	Keytop 5	186701	Plate 3
184021	Cover, Keyboard 4	184817	Keytop 5	186702	Screw, 6-32 Spl 3
184022	Keylever 6	184818	Keytop 5	186703	Plate, Top Mounting 3
184023	Keylever 6	184869	Keytop 5	186704	Stud 3
184024	Keylever 6	184895	Keytop 5	186705	Shaft 3
184025	Keytop 5	185089	Keytop 5	186706	Cam, Trip 3
184026	Keytop 5	185090	Keytop 5	186707	Lever 3
184027	Keytop 5	185092	Keytop 5	186709	Bushing, Eccentric 3
184031	Terminal 9	185093	Keytop 5	186746	Lever 6
184032	Insulator, .031" Thk 9	185150	Keytop 5	186752	Modification Kit 1,3
184033	Spacer, .035" Thk 9	185159	Keytop 5	186754	Bushing 3
184106	Block Assembly, Right	185160	Keytop 5	192191	Knob 12
	Contact 9	185161	Keytop 5	192538	Plug, Button 4
184107	Block Assembly, Right	185162	Keytop 5	195307	Keylever, Repeat 6
	Contact 2	185163	Keytop 5	195309	Lever, Non-Repeat 7
184108	Block Assembly, Right	185164	Keytop 5	195312	Lever, Reset 10
	Contact 10	185165	Keytop 5	195315	Solenoid w/Plunger 10
184109	Block Assembly, Right	185394	Keytop 5	195317	Pin 10
	Contact 8,11	185395	Keytop 5	195321	Bracket, Switch 10
184111	Block Assembly, Right	185396	Keytop 5	195322	Switch 10
	Contact 9	185619	Frame, Left Keyboard 2	195332	Bracket, Power Switch 12
184135	Block Assembly, Left	185620	Frame, Right Keyboard 2	195333	Switch, Pushbutton 12
	Contact 8	185780	Spring, Compression 6	195465	Plate, Mounting 10
184165	Lever, Reset 11	185798	Spring 7,8,9	195470	Insulator, .031" Thk 10
184174	Switch, SP-DT 11	185801	Modification Kit 1,3		

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195472	Terminal 10	195563	Lens, Red Pushbutton 12	305706	Shaft w/Link 10
195473	Terminal, Common 10	195568	Lamp, 6 V 12	305707	Arm, Reset 10
195474**	Panel, Top 12	195965	Tray, Copyholder 12	305708	Bracket, Solenoid 10
195475	Cover, Keyboard 4,12	198670	Screw w/Lockwasher, 6-40 x 5/16 Hex 12	311516	Post 12
195481**	Cover	303037	Spring, Compression 3	312918	Strap 10
195482	Cable Assembly 10			321895	Post 3
				333588	Lamp, 28V Miniature 12

33 TYPING UNIT (UP)

PARTS

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5	Ribbon Feed Mechanism	6	28	185791 Modification Kit to Provide Controlled Single or Double Line Feed Feature on Friction Feed Printer	26
6	Carriage Upper Plate Mechanism	7	29	Typewheel Chart	27
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10	Main Shaft Mechanism-Friction Feed	11	33	Later Design Formout Mechanism- Sprocket Feed	31
11	Main Shaft Mechanism-Sprocket Feed	12	34	Motor Contact-Sprocket Feed	31
12	182015 Clutch Trip Lever Assembly	13	35	Solenoid Print-Nonprint Reset Mechanism	32
13	Code Bar Basket Mechanism	14	36	Base	33
14	Function Box Mechanism	15	37	Sub Bases	34
15	Function Shaft Mechanism	16	38	Motors	35
16	Selector Frame Mechanism	17	39	Electrical Components	36
17	Clutch and Camsleeve Mechanism	18	40	Cable Components	37
18	Distributor Clutch Mechanism	19		Numerical Index	38
19	Trip Shaft Mechanism	20			
20	182964 Drive Arm Assembly	21			
21	Clutch Trip Mechanism	21			
22	Answer-Back Drum Mechanism	22			
23	Answer-Back Trip Magnet Mechanism	22			

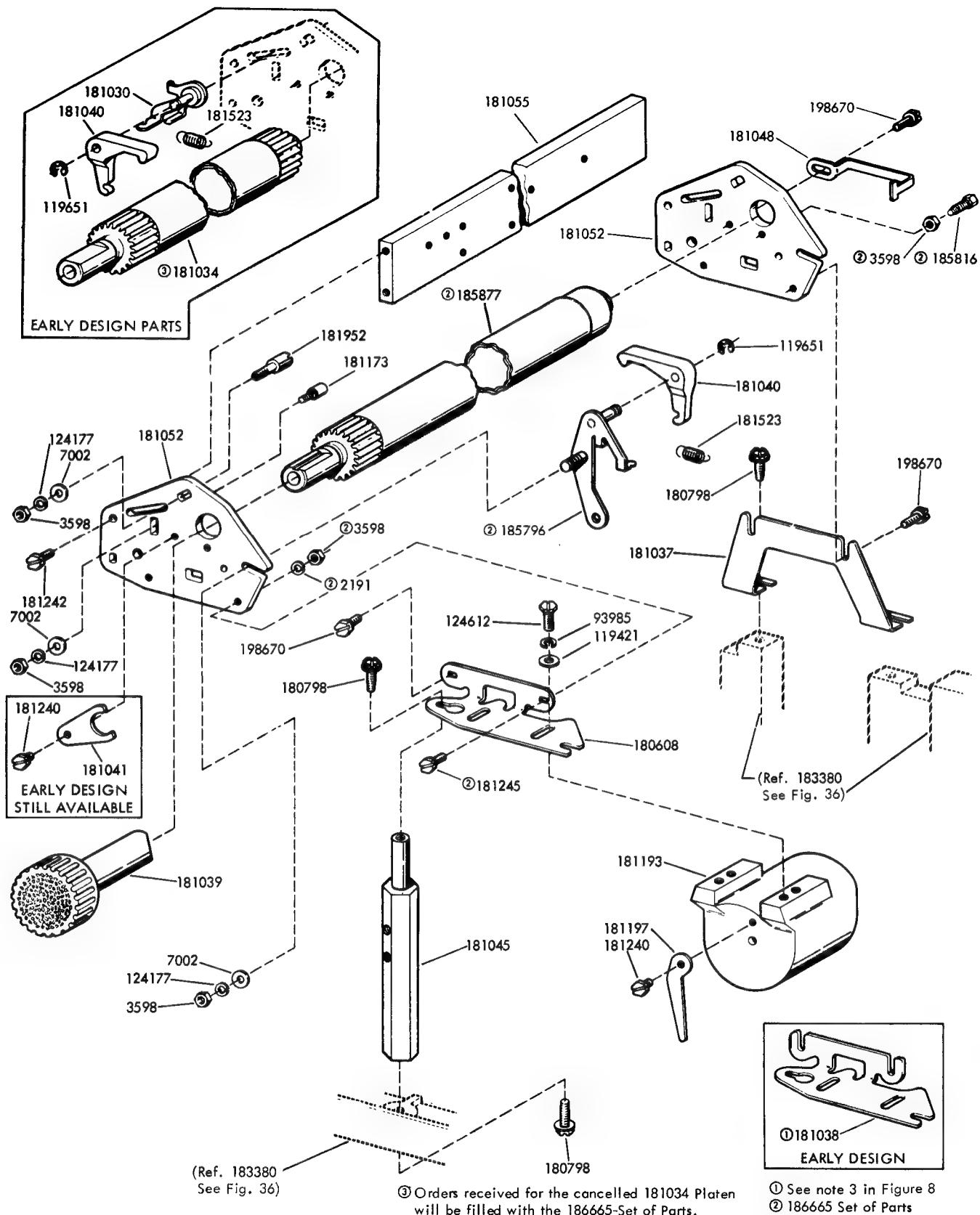


FIGURE 1. PLATEN MECHANISM - FRICTION FEED

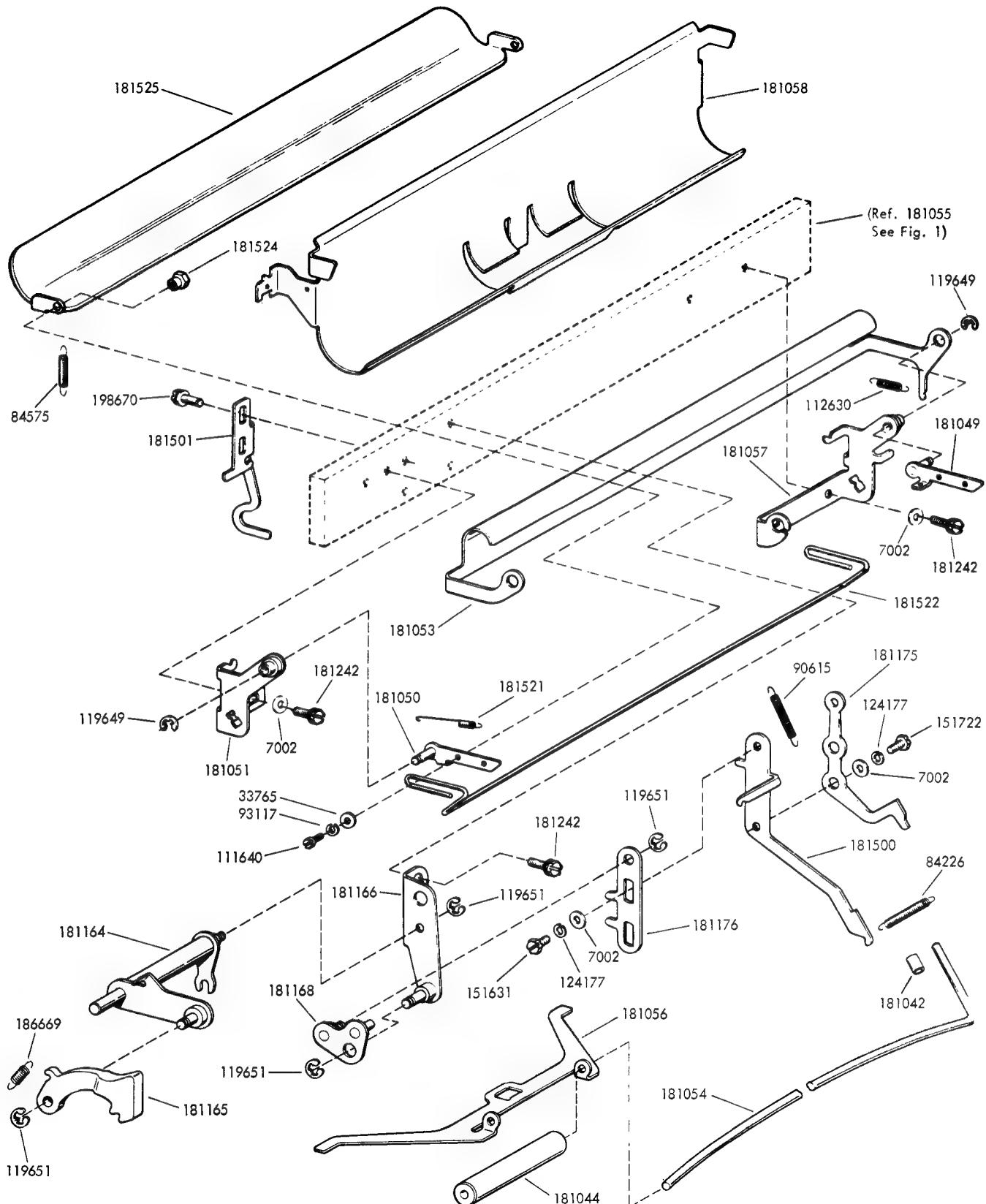


FIGURE 2. PAPER HANDLING MECHANISM - FRICTION FEED

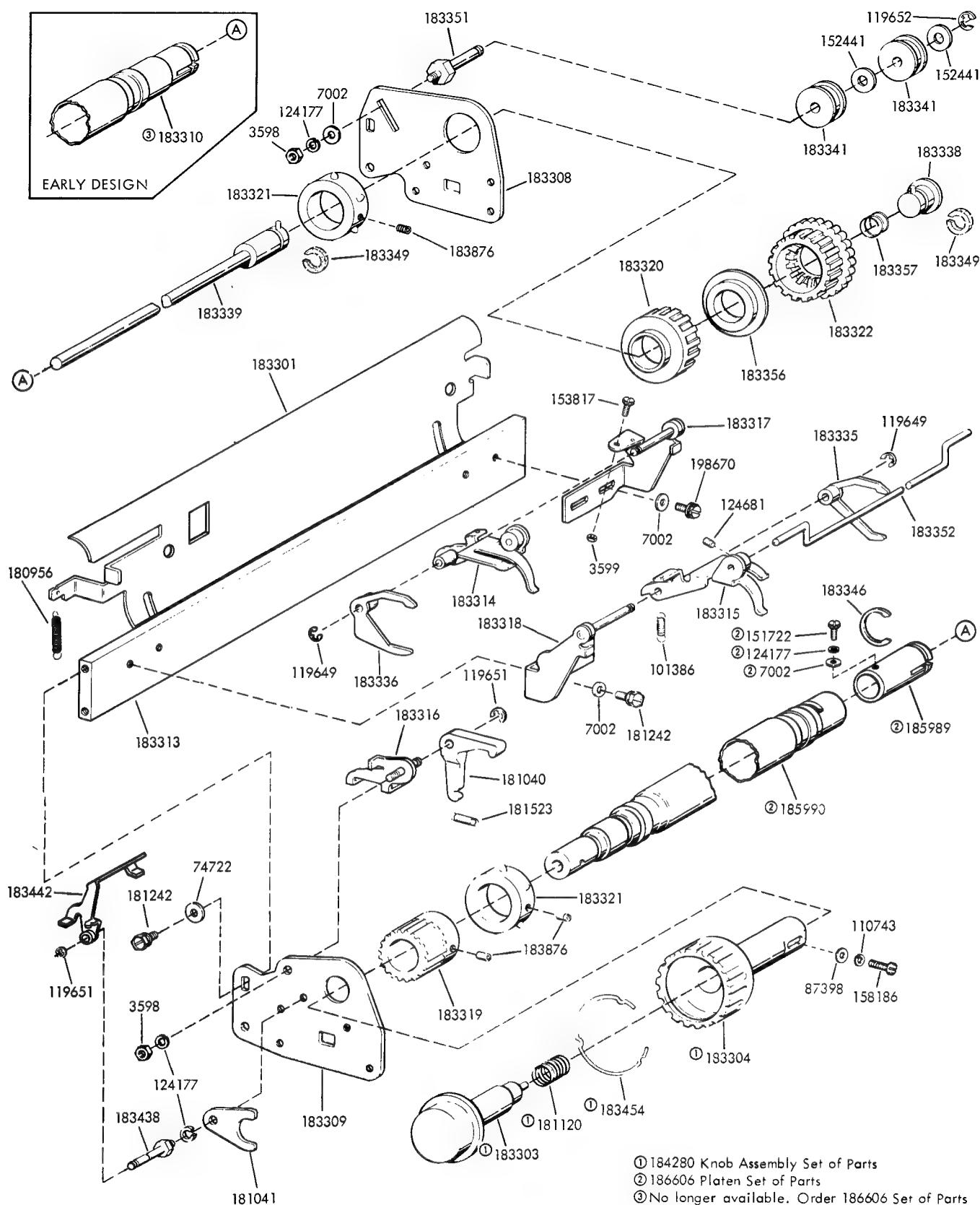


FIGURE 3. PLATEN MECHANISM - SPROCKET FEED

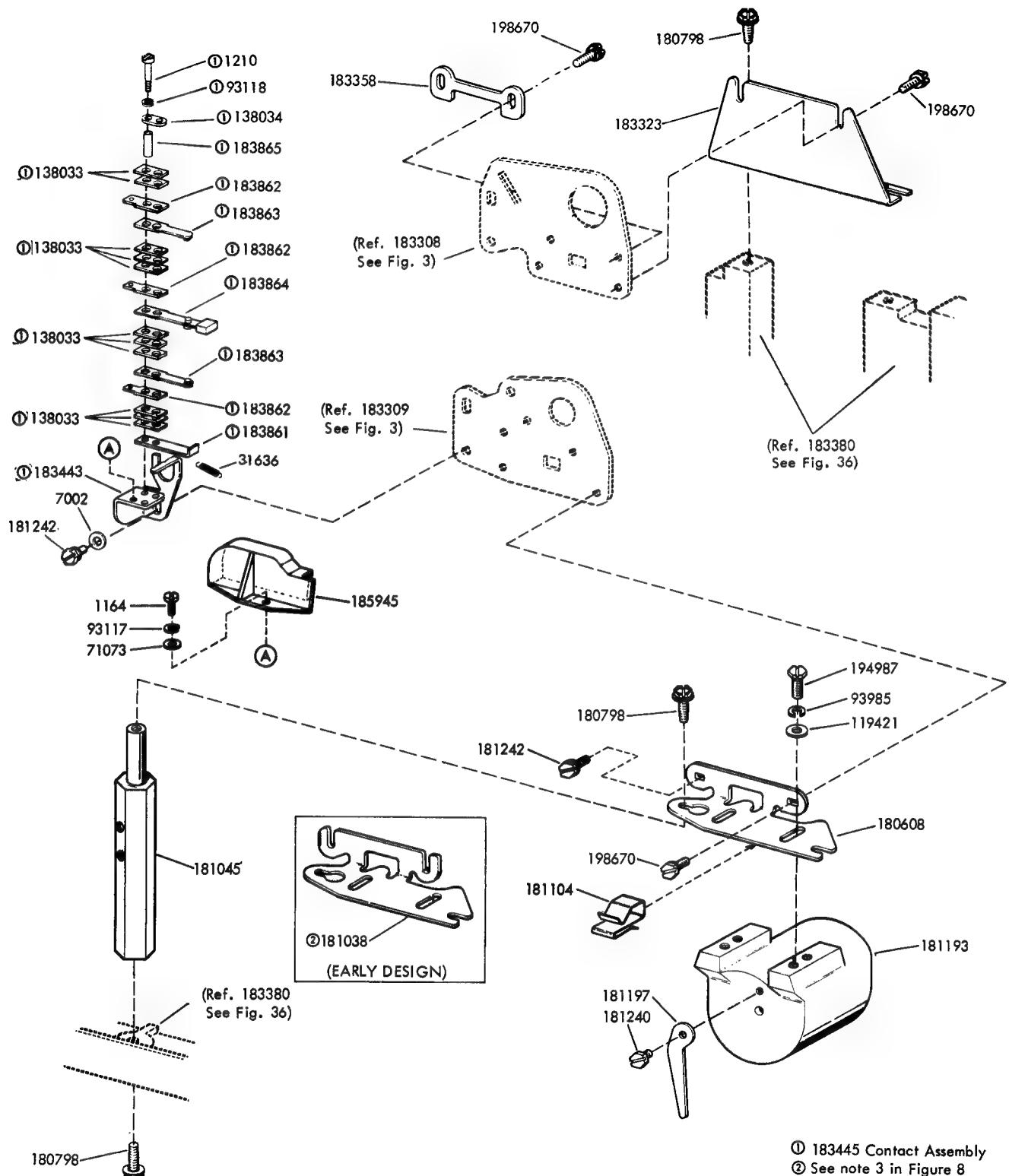


FIGURE 4. PLATEN MECHANISM - SPROCKET FEED (CONTINUED)

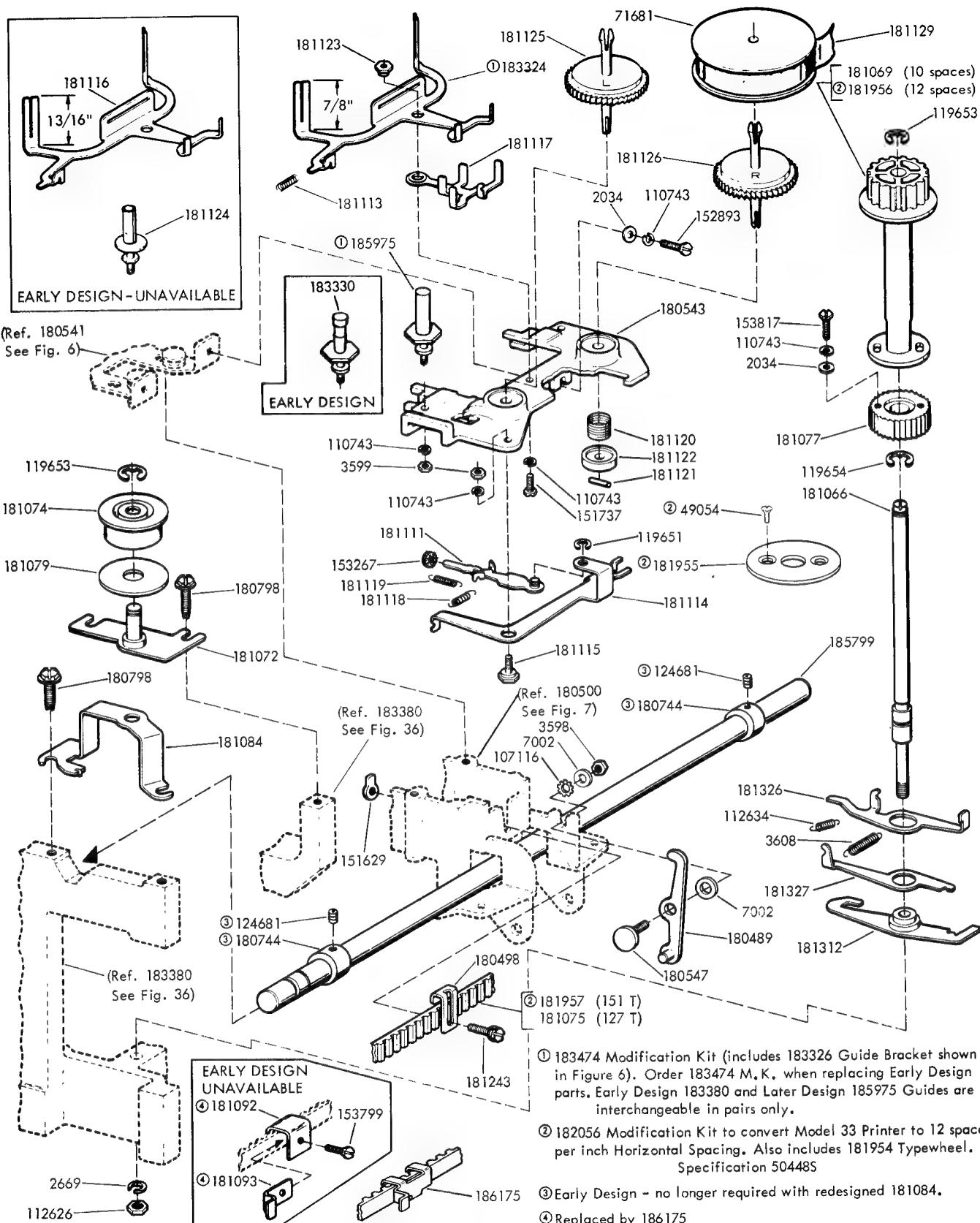


FIGURE 5. RIBBON FEED MECHANISM

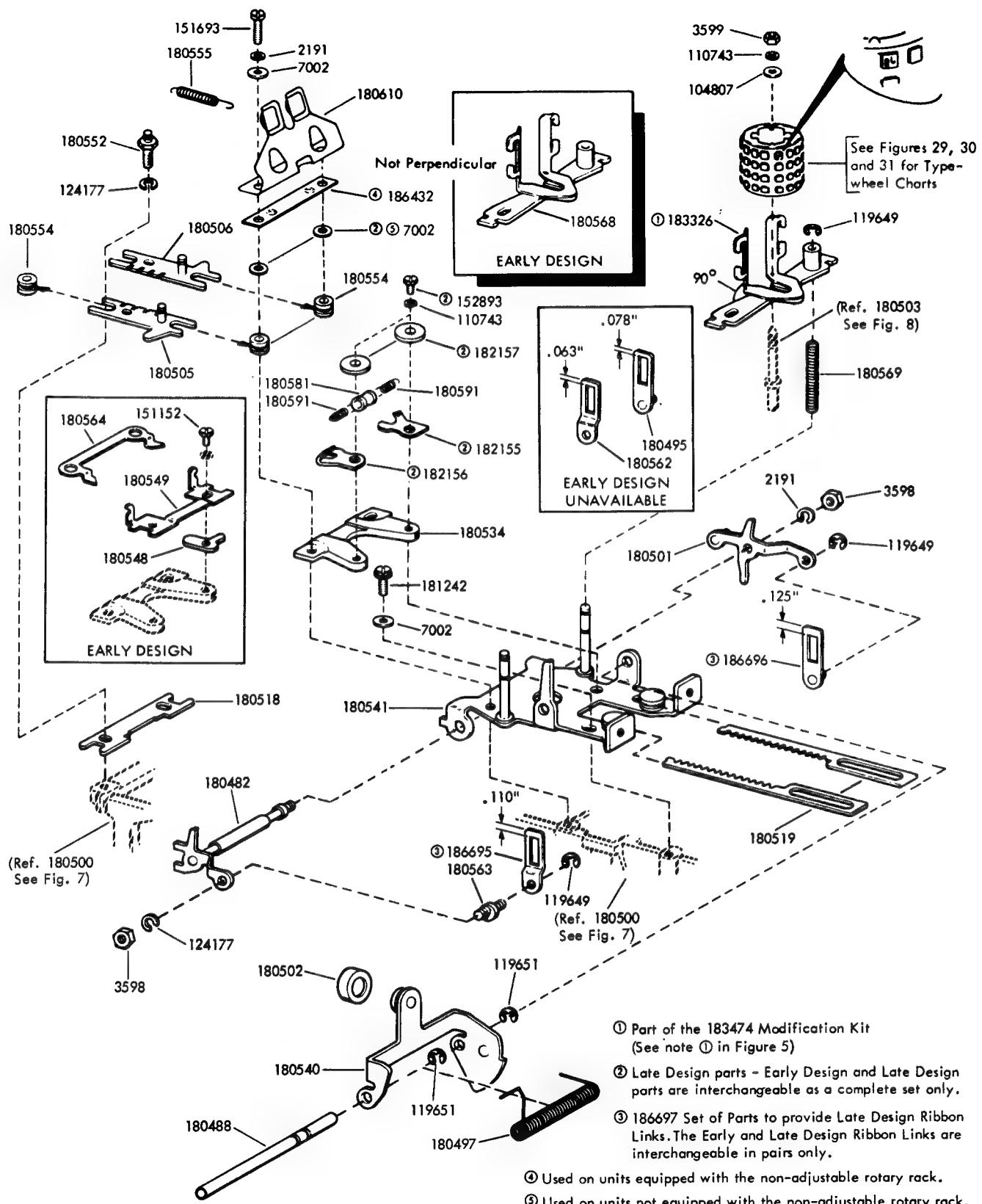


FIGURE 6. CARRIAGE UPPER PLATE MECHANISM

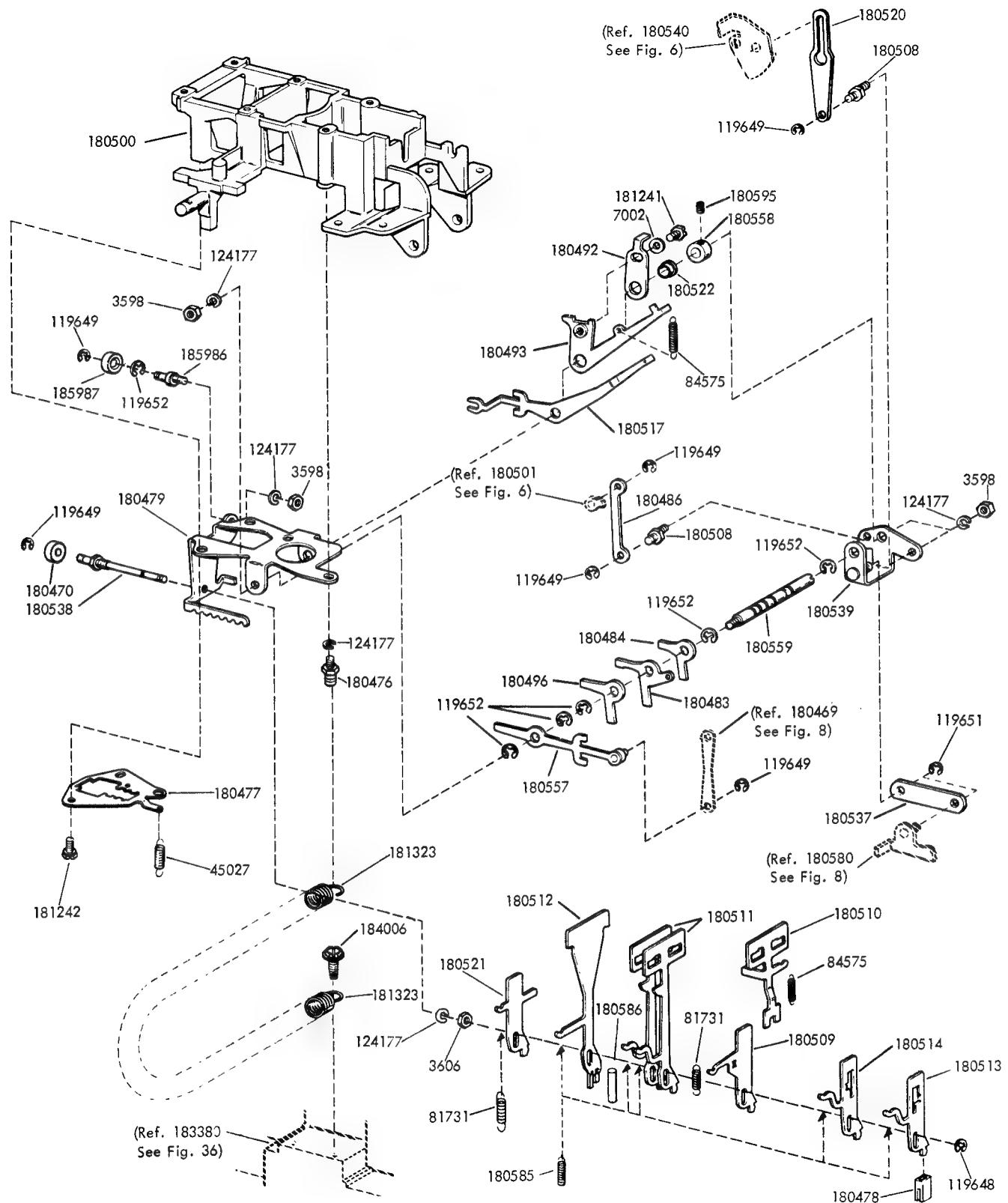


FIGURE 7. CARRIAGE LOWER PLATE MECHANISM

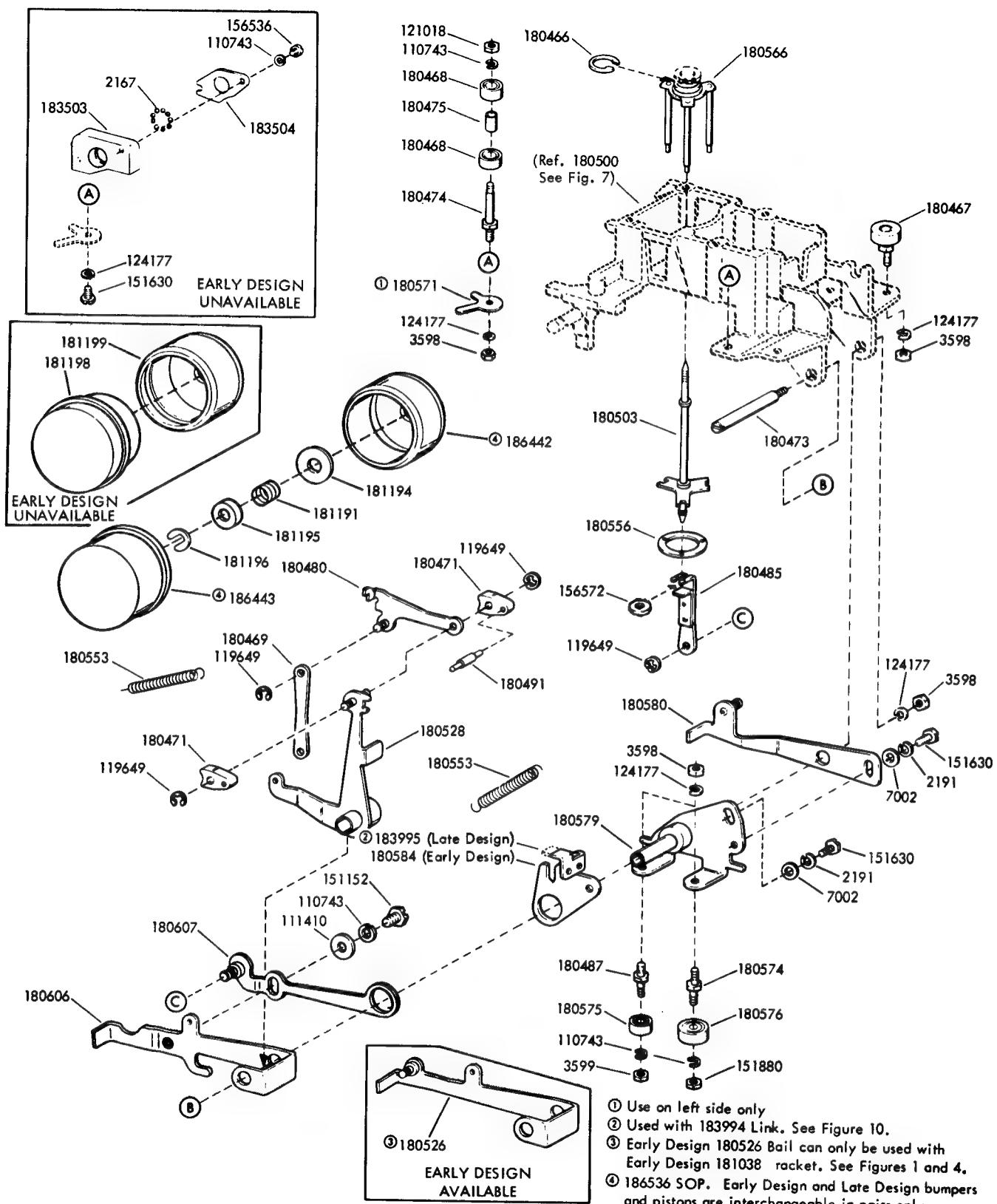
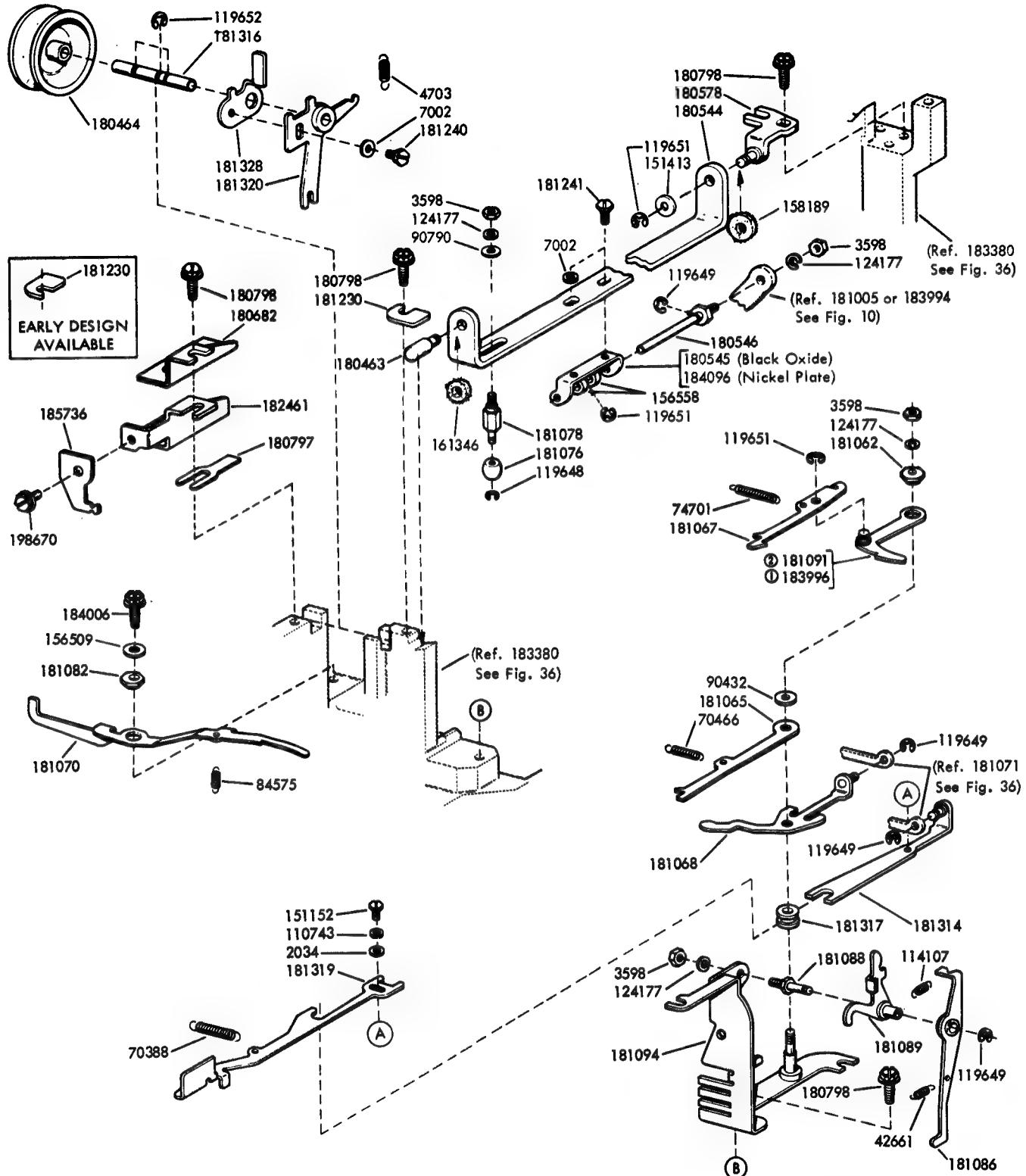


FIGURE 8. CARRIAGE POWER BAIL MECHANISM



① Used with 183994 (Figure 10)
 ② Used with 181005 (Figure 10)

FIGURE 9. CARRIAGE DRIVE BAIL MECHANISM

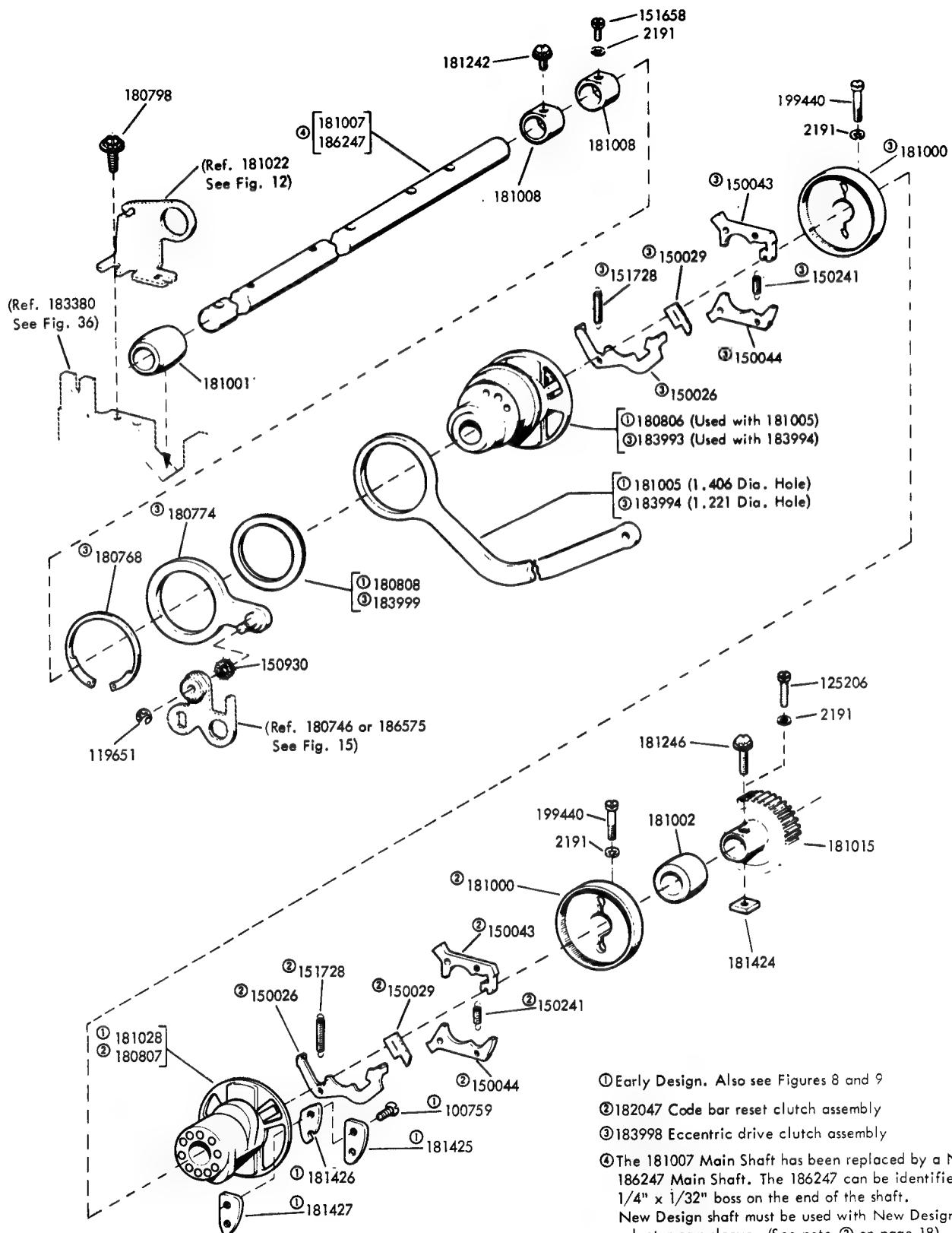
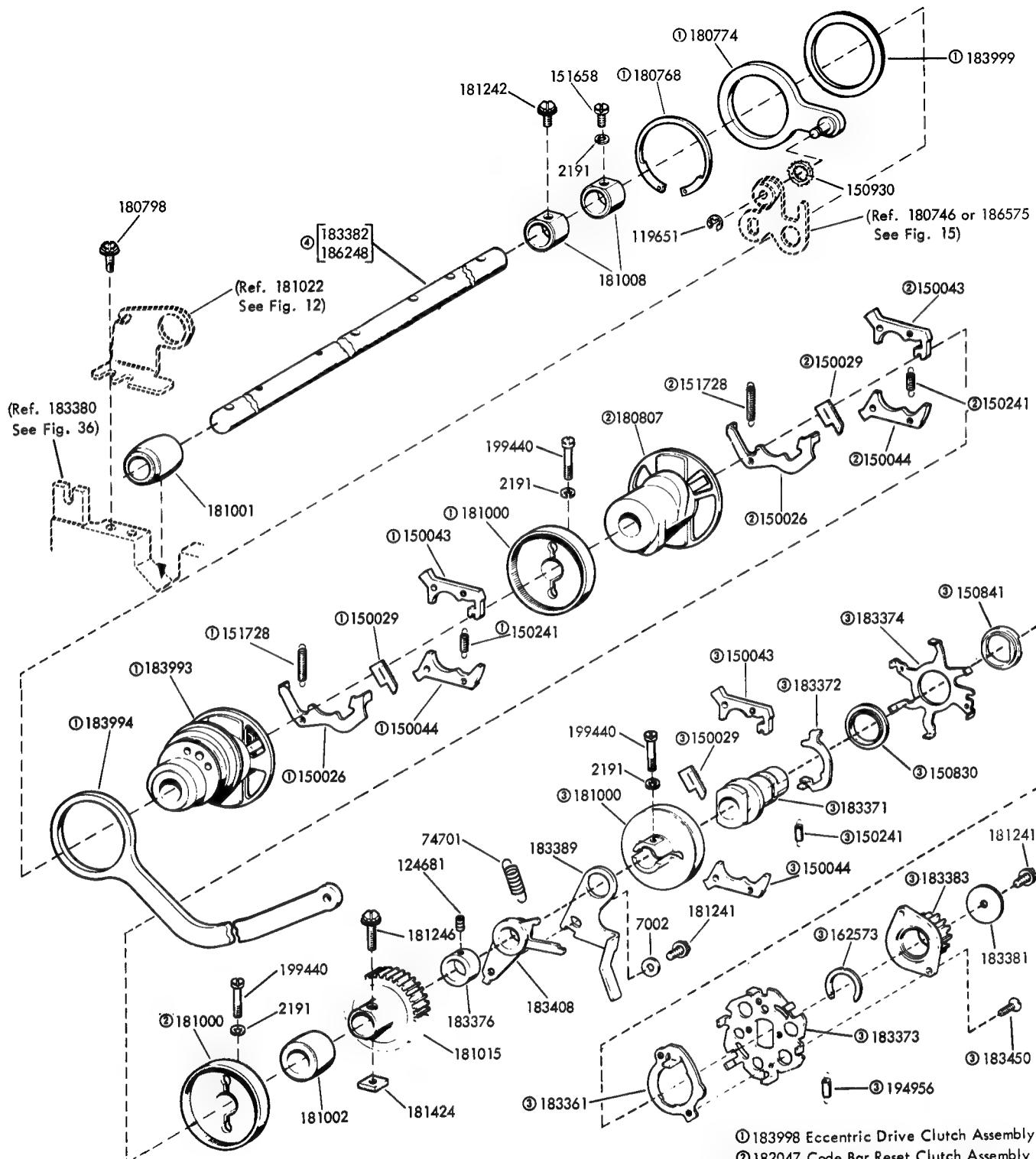


FIGURE 10. MAIN SHAFT MECHANISM - FRICTION FEED



- ① 183998 Eccentric Drive Clutch Assembly
- ② 182047 Code Bar Reset Clutch Assembly
- ③ 183492 Line Feed Clutch Assembly

④ The 183382 Main Shaft has been replaced by a New Design 186248 Main Shaft. The 186248 can be identified by the 1/4" x 1/32" boss on the end of the shaft. New Design shaft must be used with New Design selector cam sleeve. (See note ② on page 18)

FIGURE 11. MAIN SHAFT MECHANISM - SPROCKET FEED

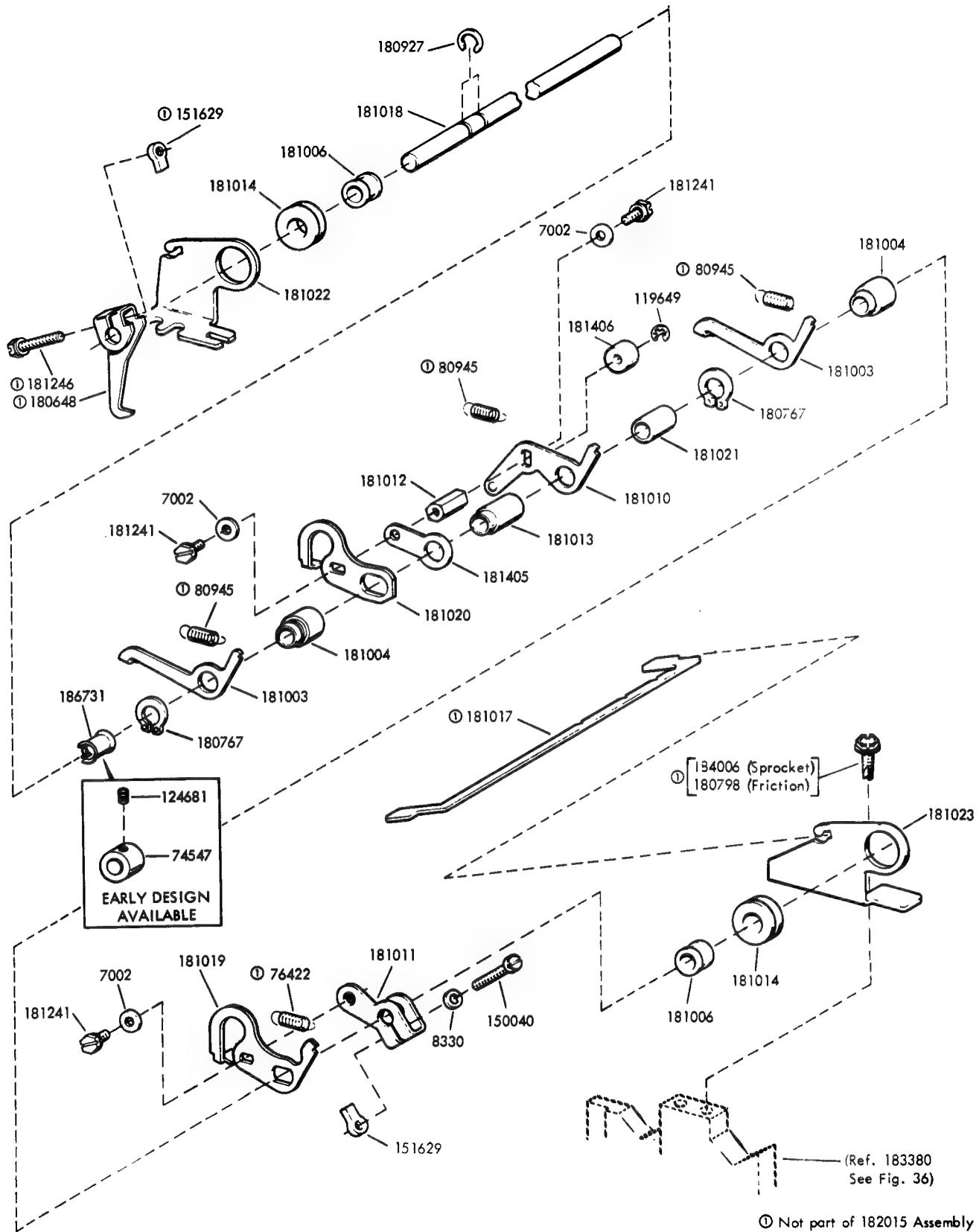
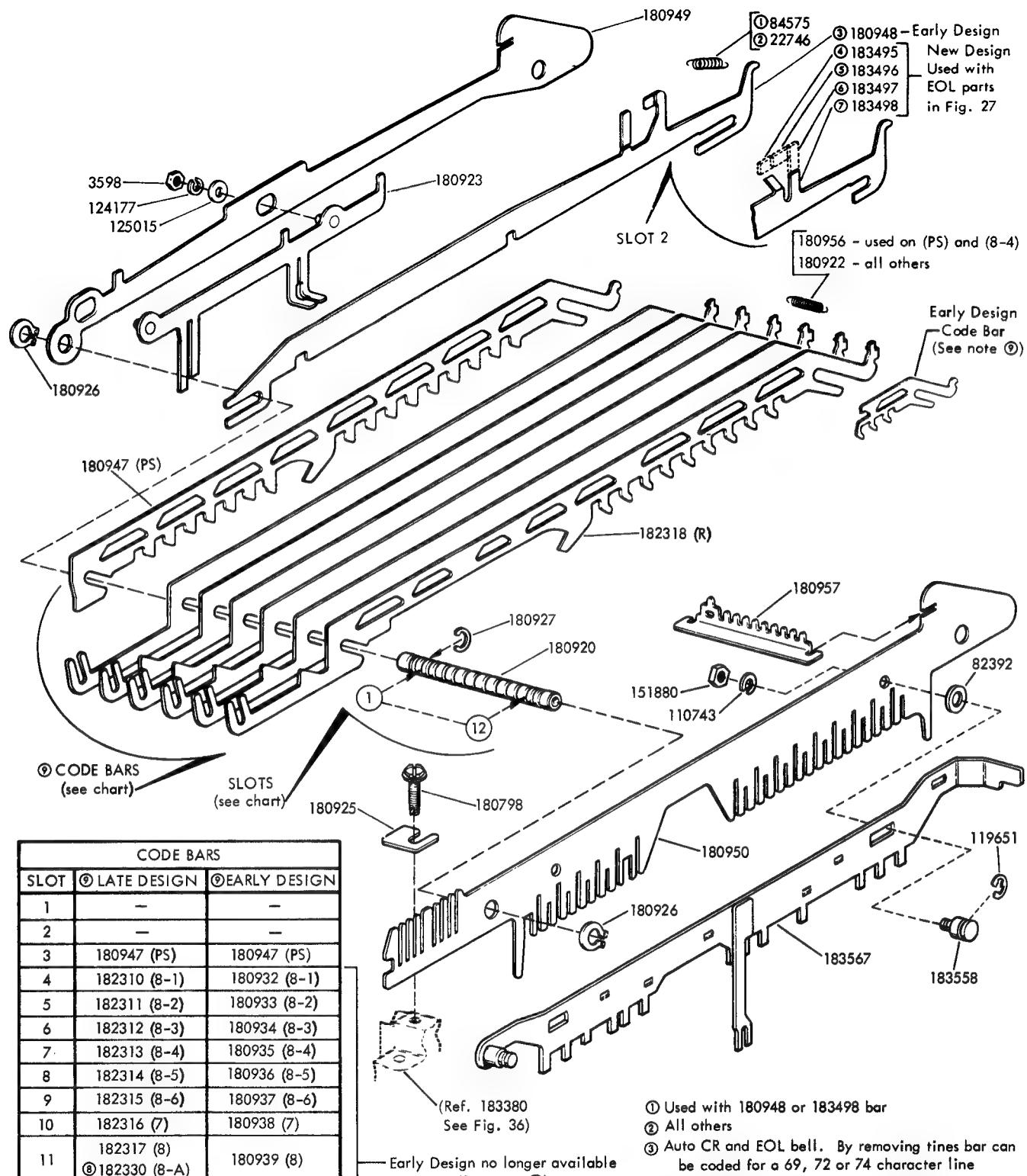


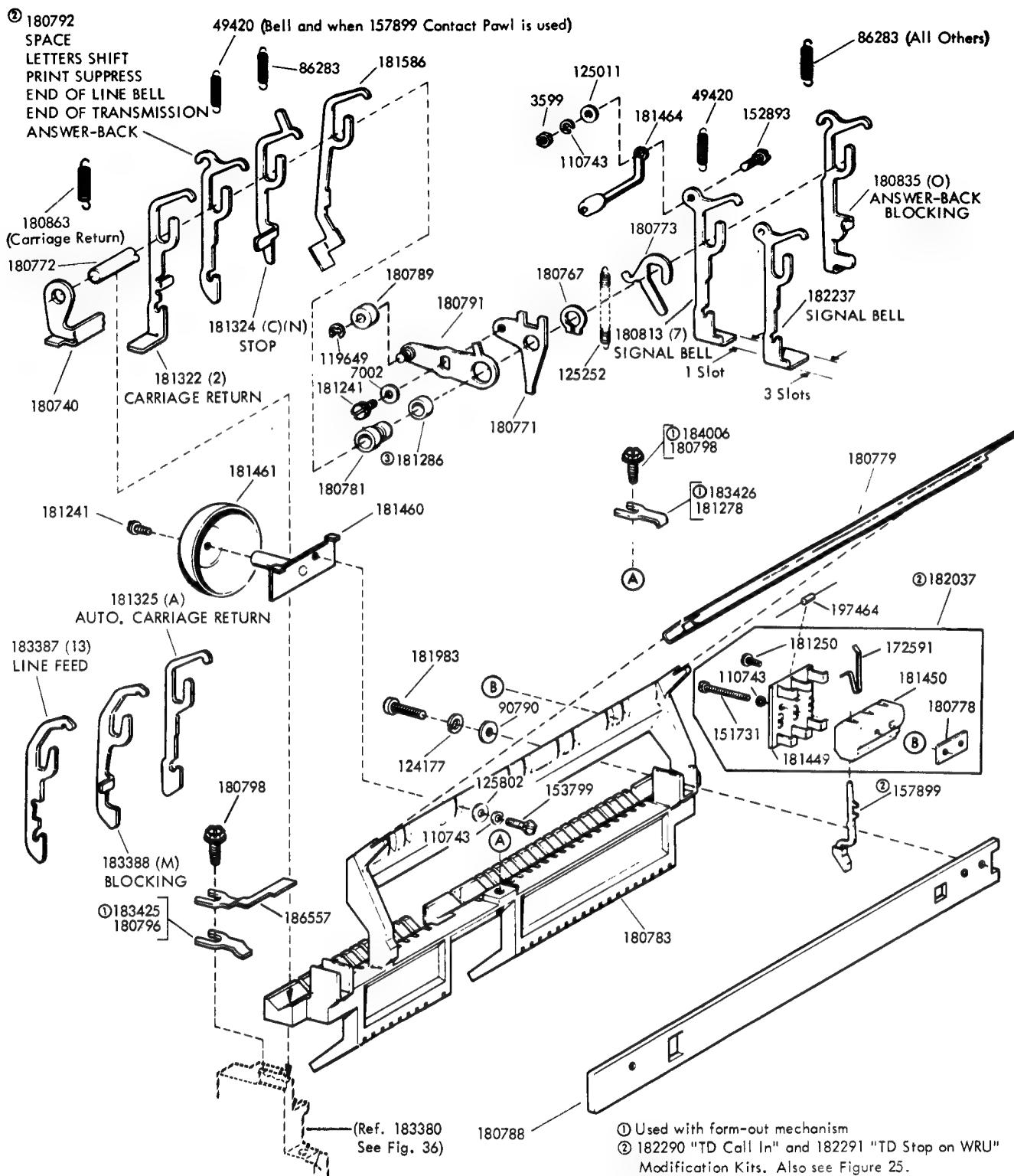
FIGURE 12. 182015 CLUTCH TRIP LEVER ASSEMBLY



④ Early Design and Late Design Code Bars are interchangeable in sets only. (Numbers in parenthesis indicate stamping on bar)
See notes ④ and ⑤ in Figure 16

- ① Used with 180948 or 183498 bar
- ② All others
- ③ Auto CR and EOL bell. By removing tines bar can be coded for a 69, 72 or 74 character line
- ④ Auto CR and EOL bell on a 69 character line
- ⑤ Auto CR and EOL bell on a 72 character line
- ⑥ Auto CR and EOL bell on a 74 character line
- ⑦ EOL bell only.
- ⑧ Sets equipped with even parity keyboard

FIGURE 13. CODE BAR BASKET MECHANISM



(A) Used with form-out mechanism
 (B) 182290 "TD Call In" and 182291 "TD Stop on WRU" Modification Kits. Also see Figure 25.
 (Specification 50238S)

(C) Early Design, no longer required

Note: The number or letter in parenthesis following the function pawl number indicates the slot position in the function box casting.

FIGURE 14. FUNCTION BOX MECHANISM

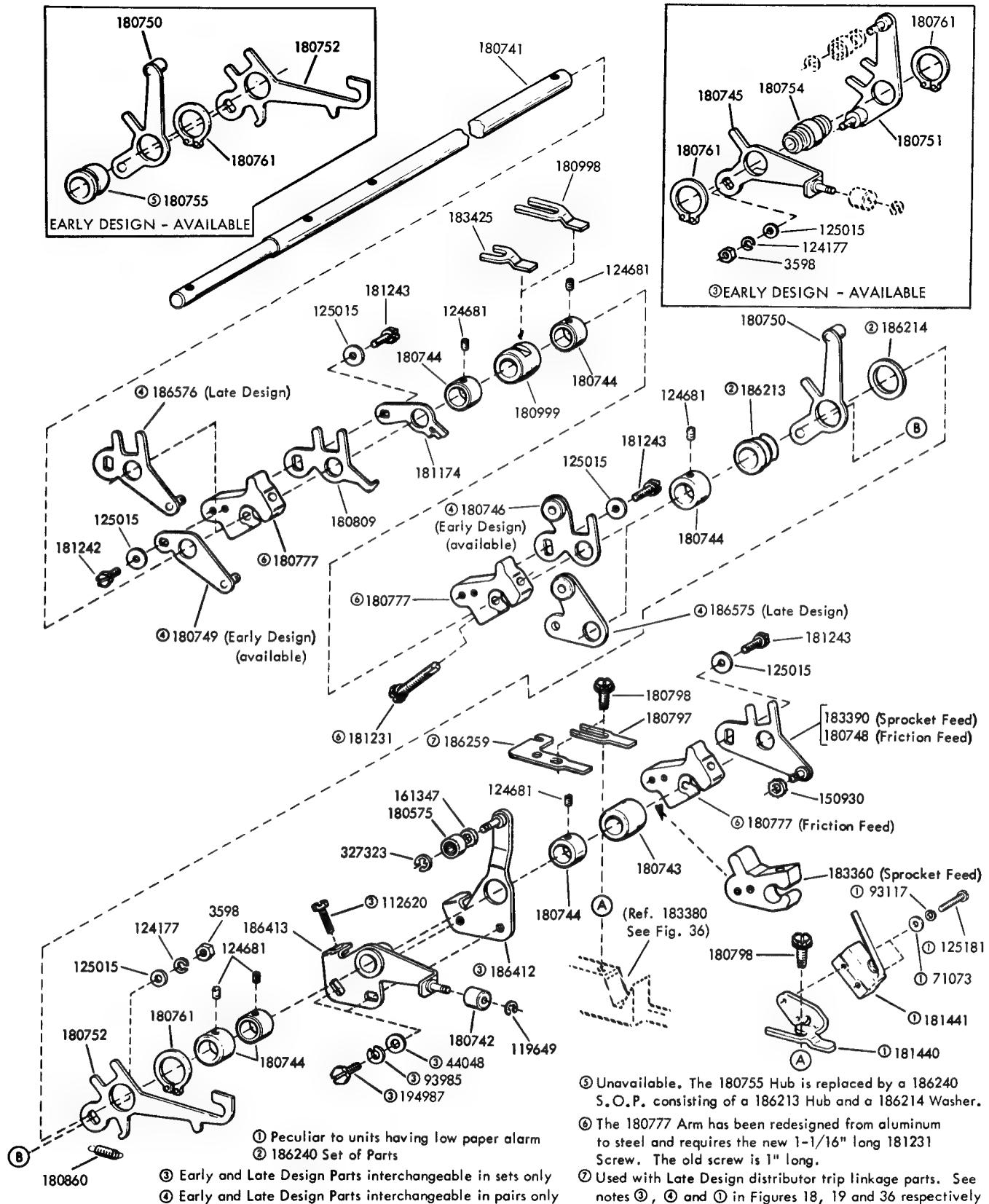


FIGURE 15. FUNCTION SHAFT MECHANISM

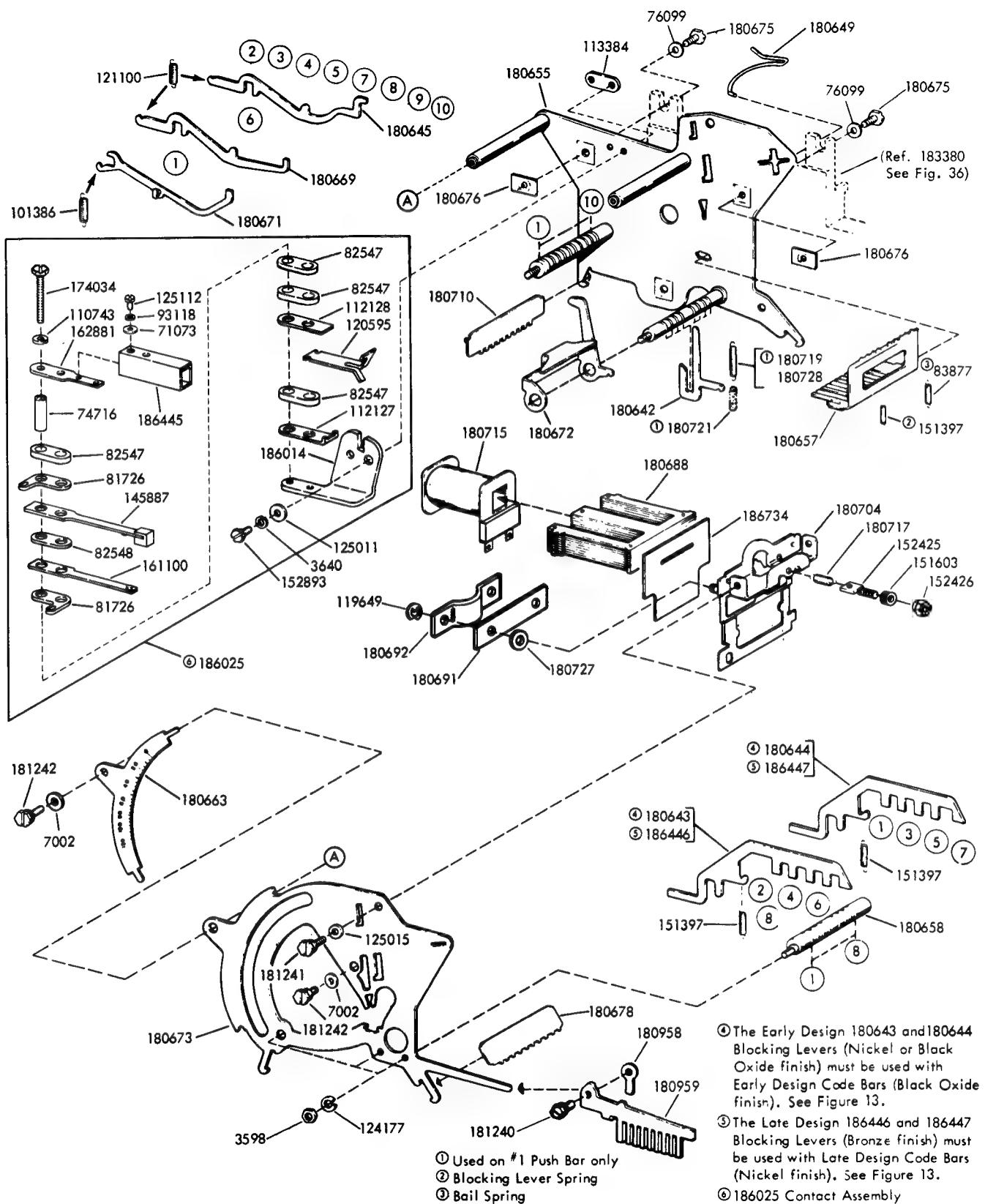


FIGURE 16. SELECTOR FRAME MECHANISM

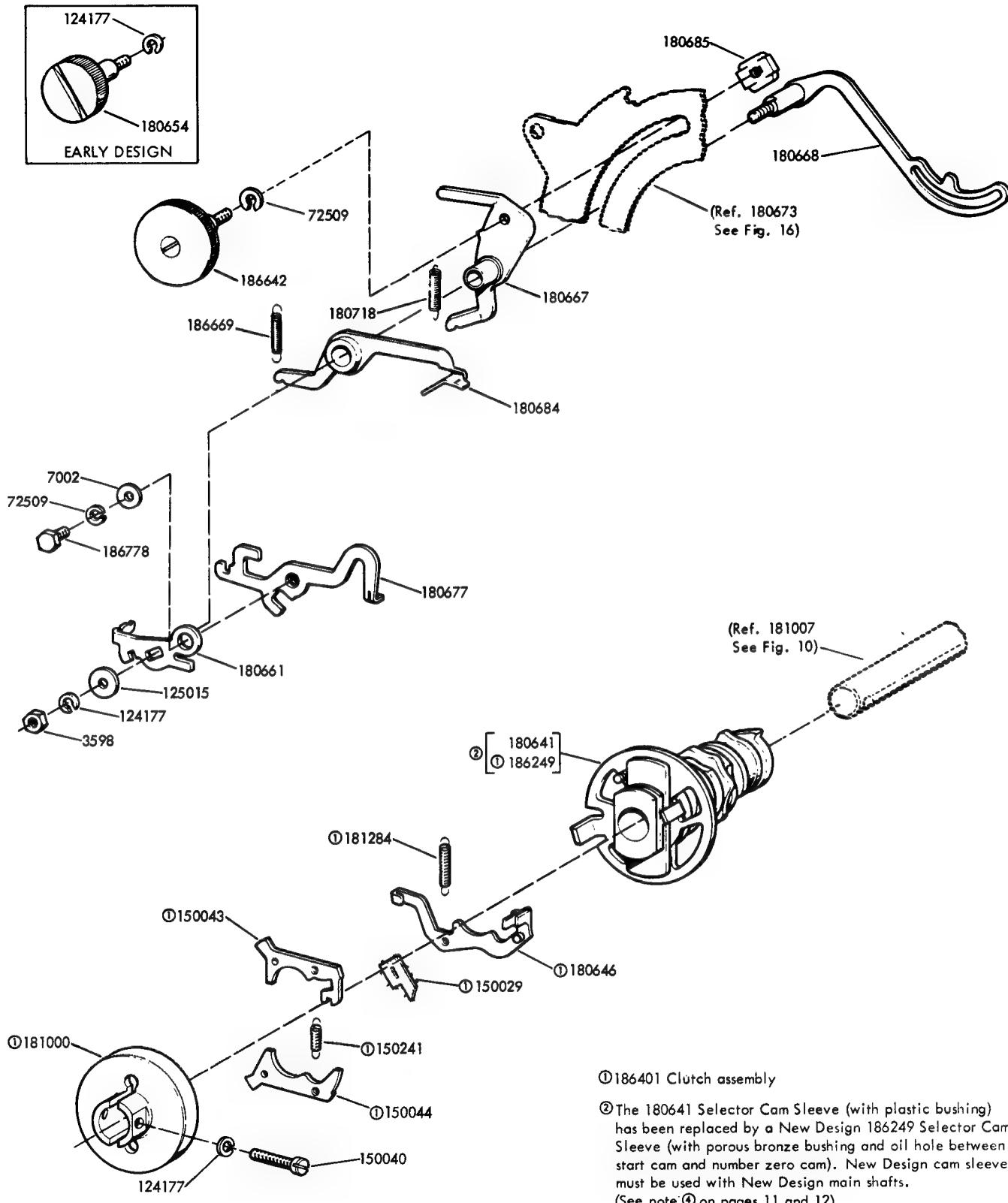


FIGURE 17. CLUTCH AND CAMSLEEVE MECHANISM

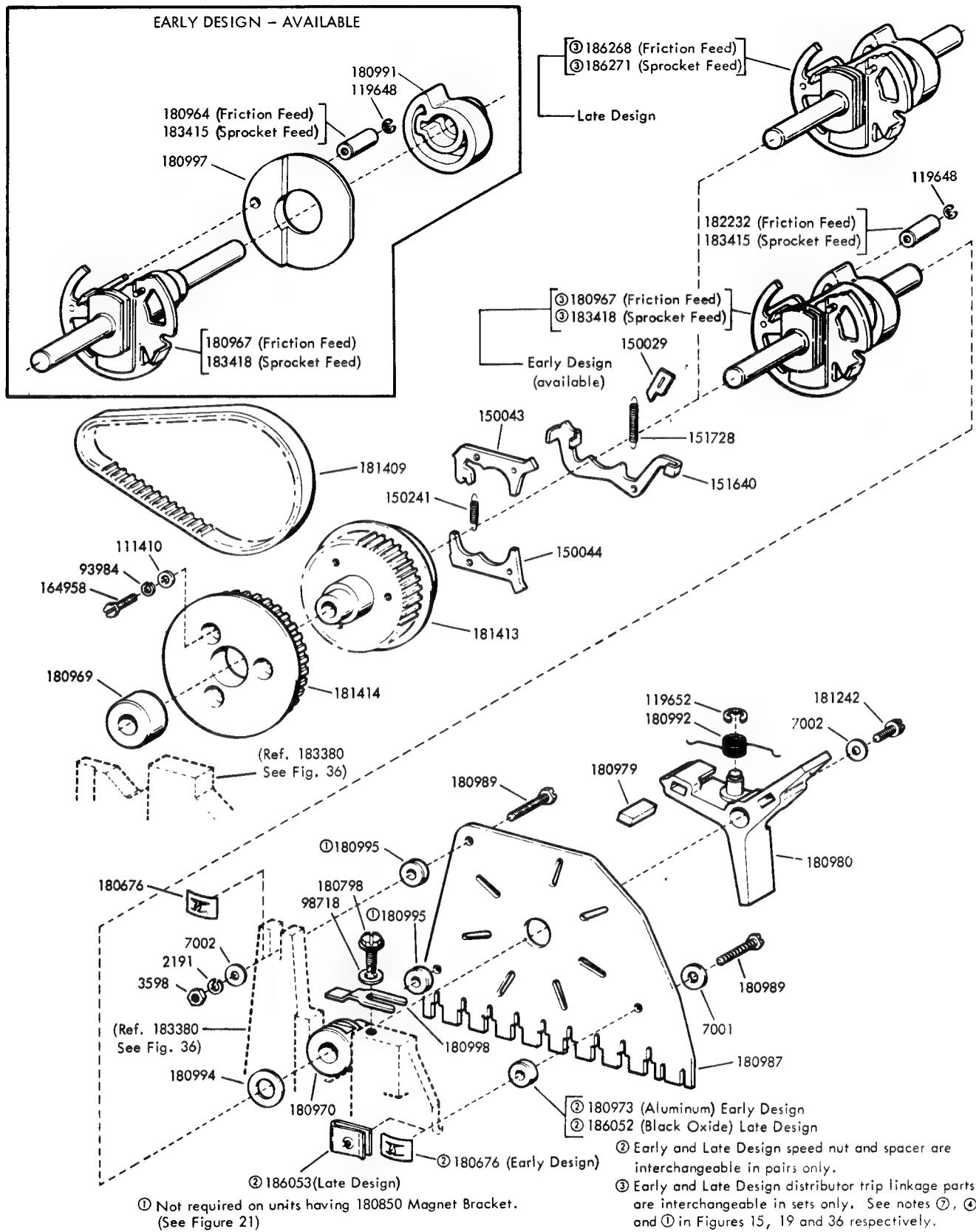


FIGURE 18. DISTRIBUTOR CLUTCH MECHANISM

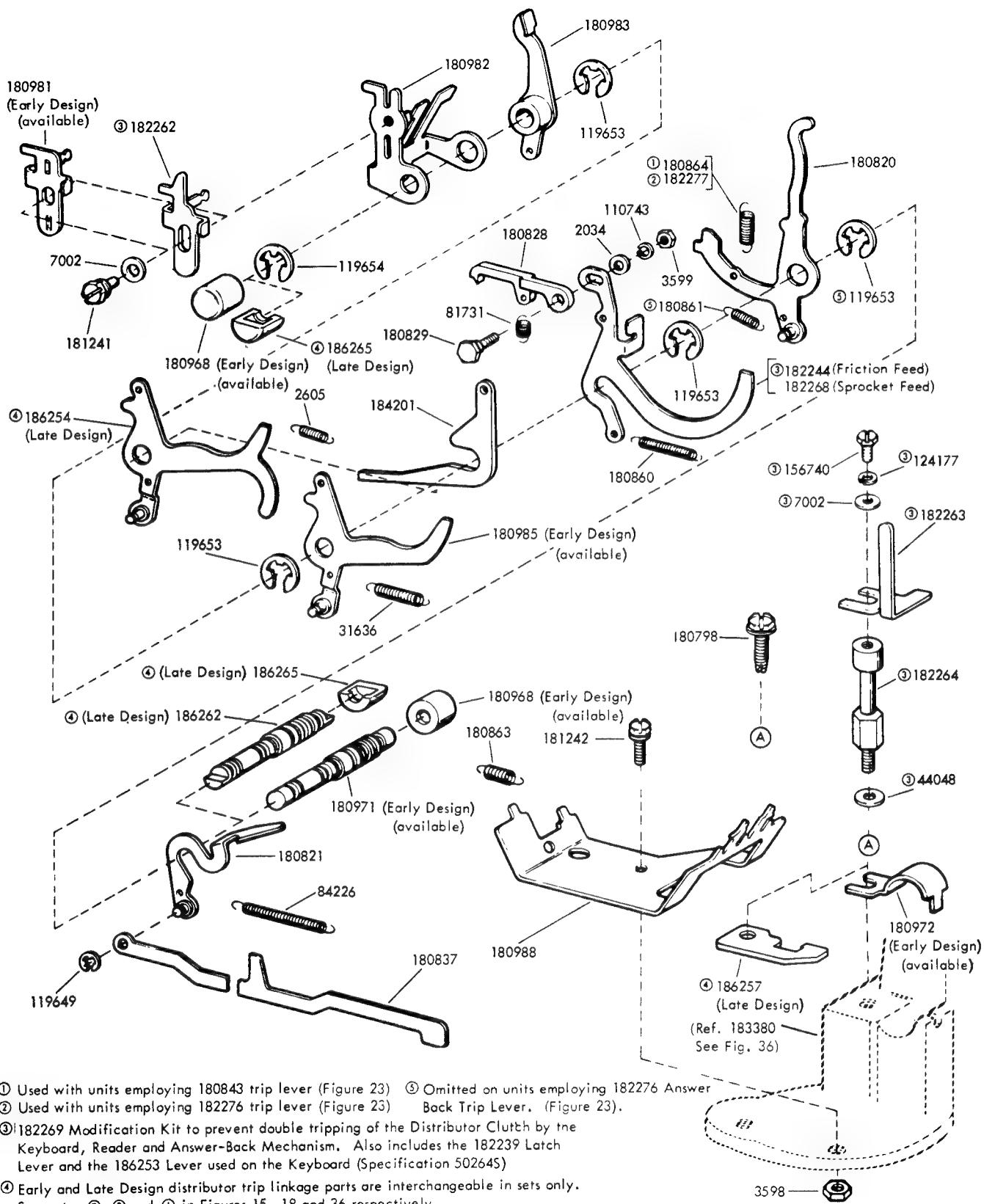


FIGURE 19. TRIP SHAFT MECHANISM

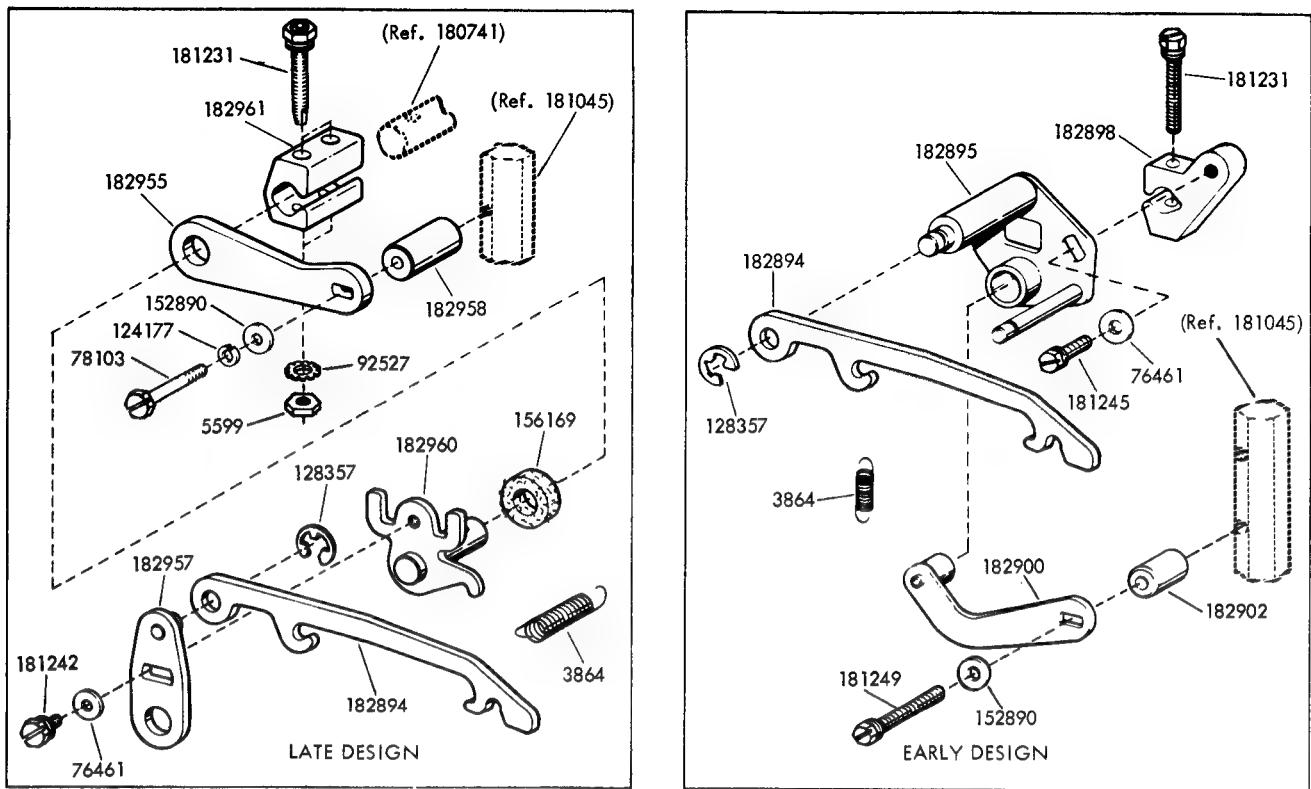


FIGURE 20. 182964 DRIVE ARM ASSEMBLY

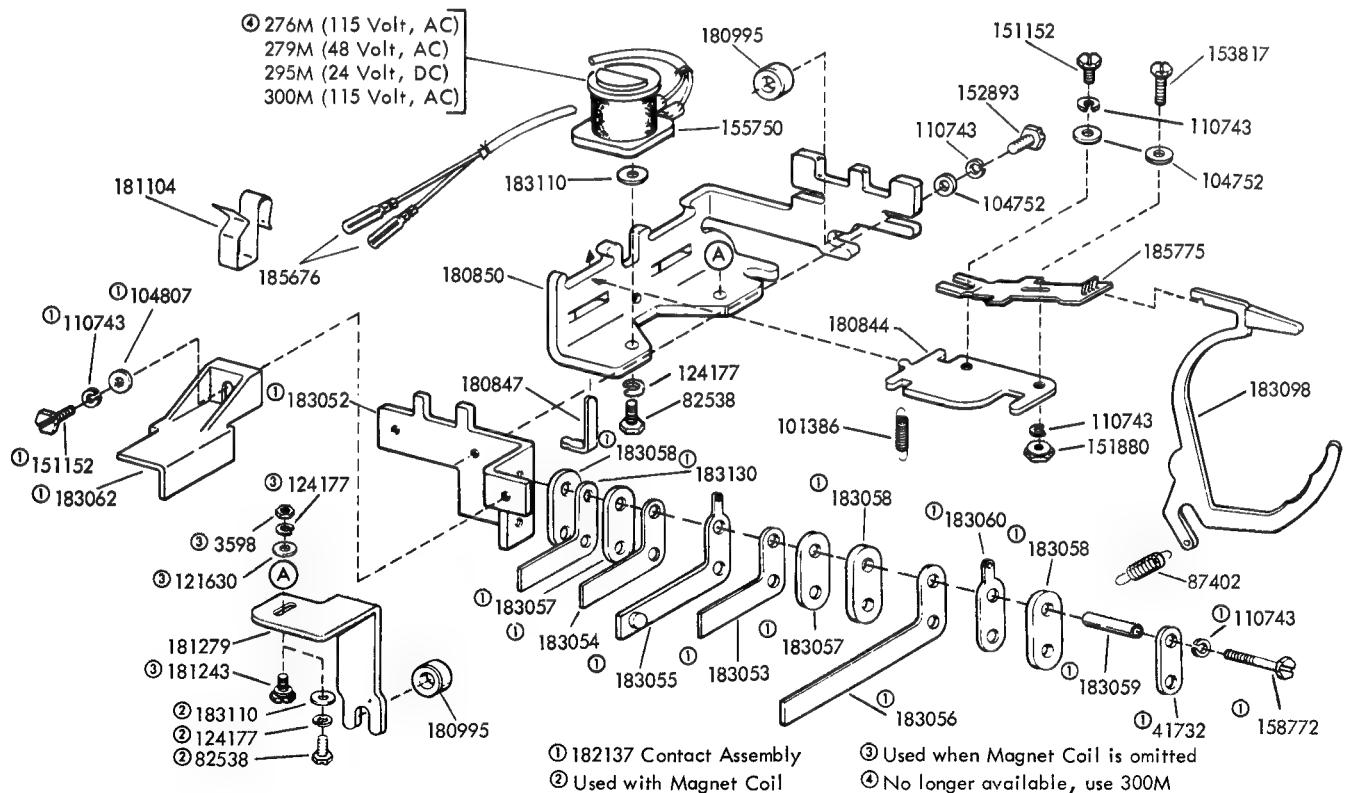
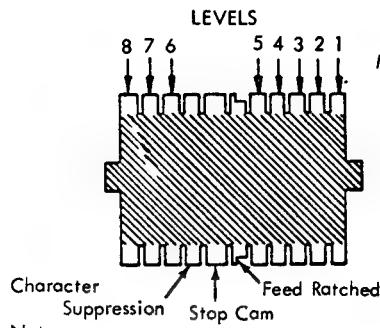


FIGURE 21. CLUTCH TRIP MECHANISM

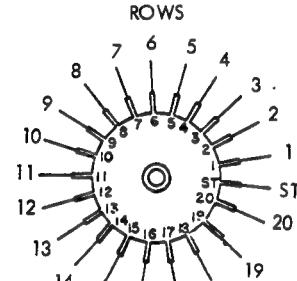


Suppression Stop Cam

7

Two drums are now available

180827 without Character Suppression Tine
184149 with Character Suppression Tine



(LEFT SIDE VIEW)

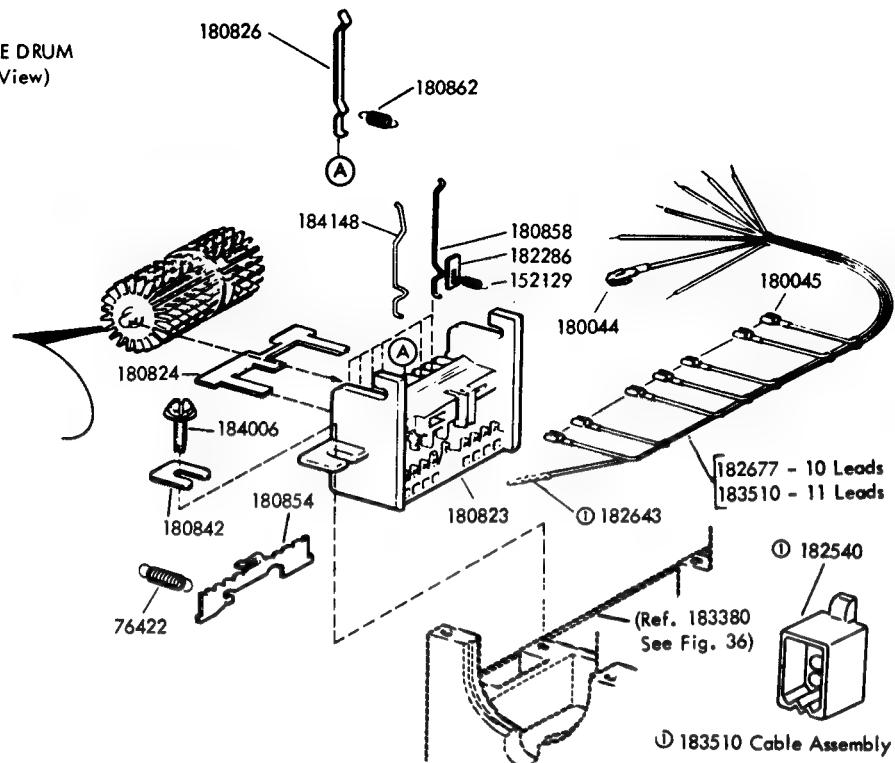


FIGURE 22. ANSWER-BACK DRUM MECHANISM

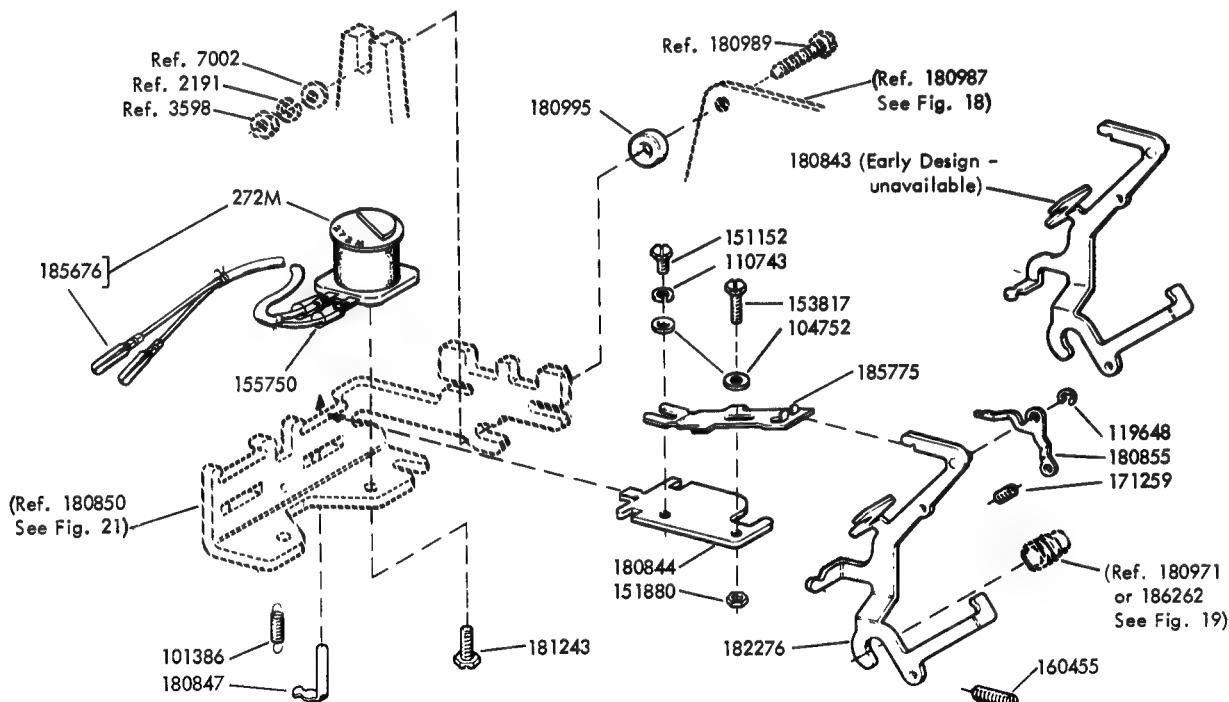
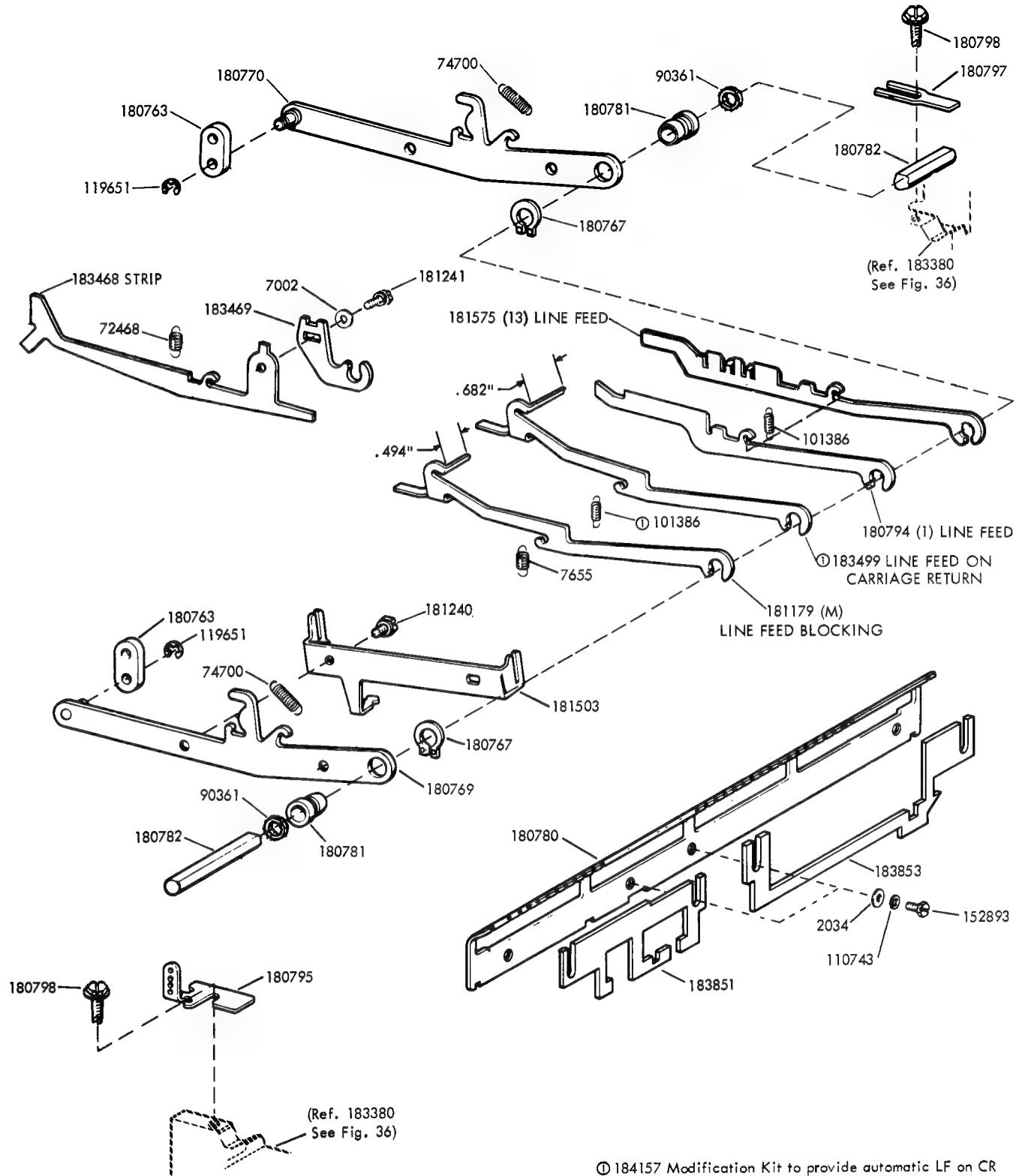


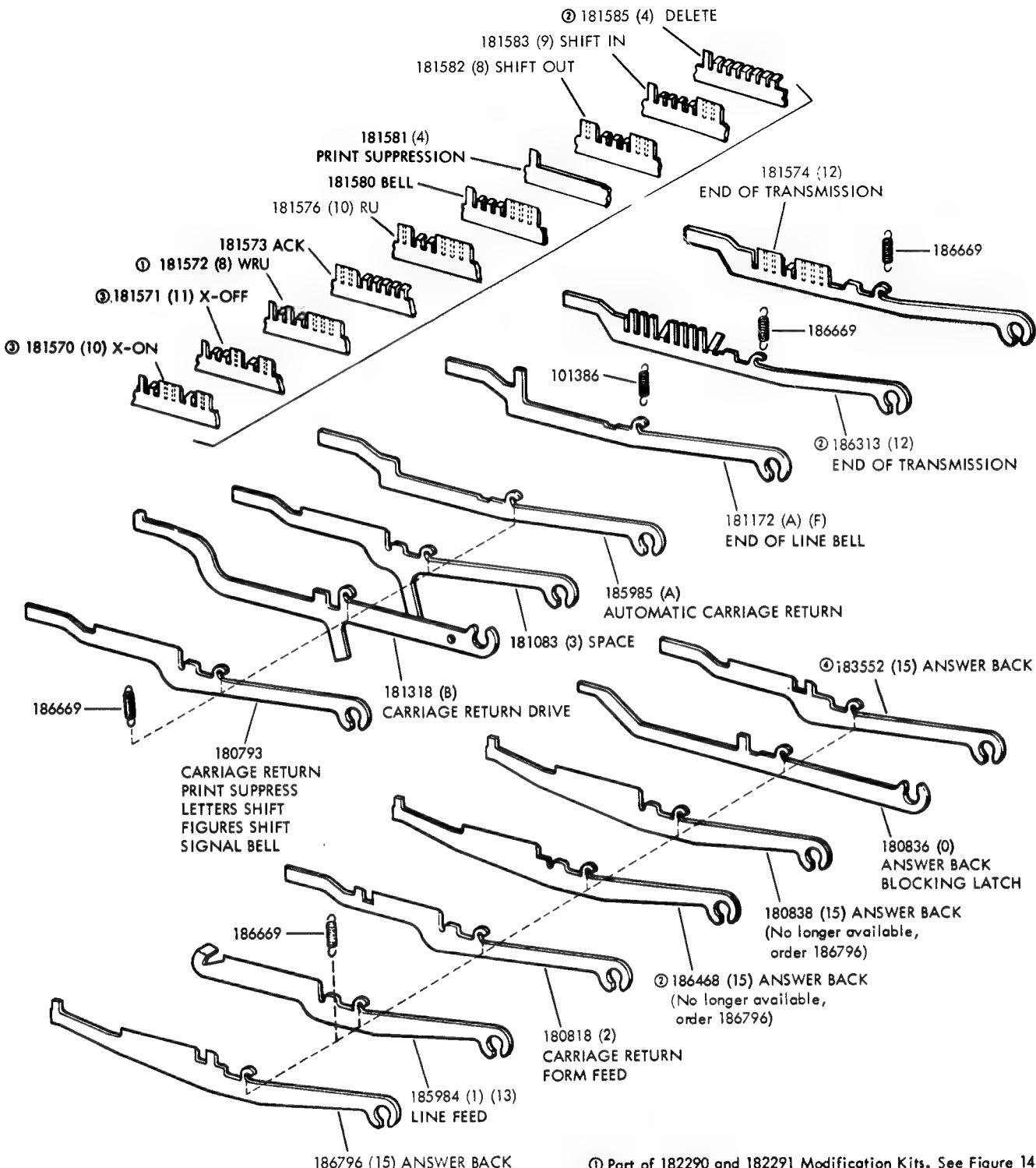
FIGURE 23. ANSWER-BACK TRIP MAGNET MECHANISM



① 184157 Modification Kit to provide automatic LF on CR
Specification 50413S

Number or letter in parenthesis () indicates slot Function Levers may occupy.

FIGURE 24. LINE FEED FUNCTION LEVER MECHANISM



① Part of 182290 and 182291 Modification Kits. See Figure 14.

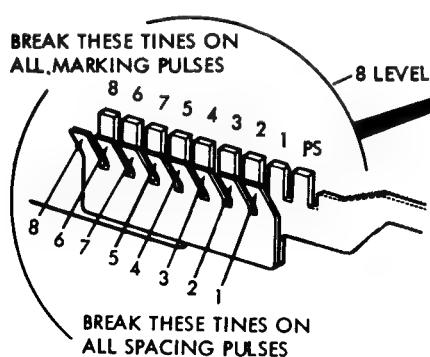
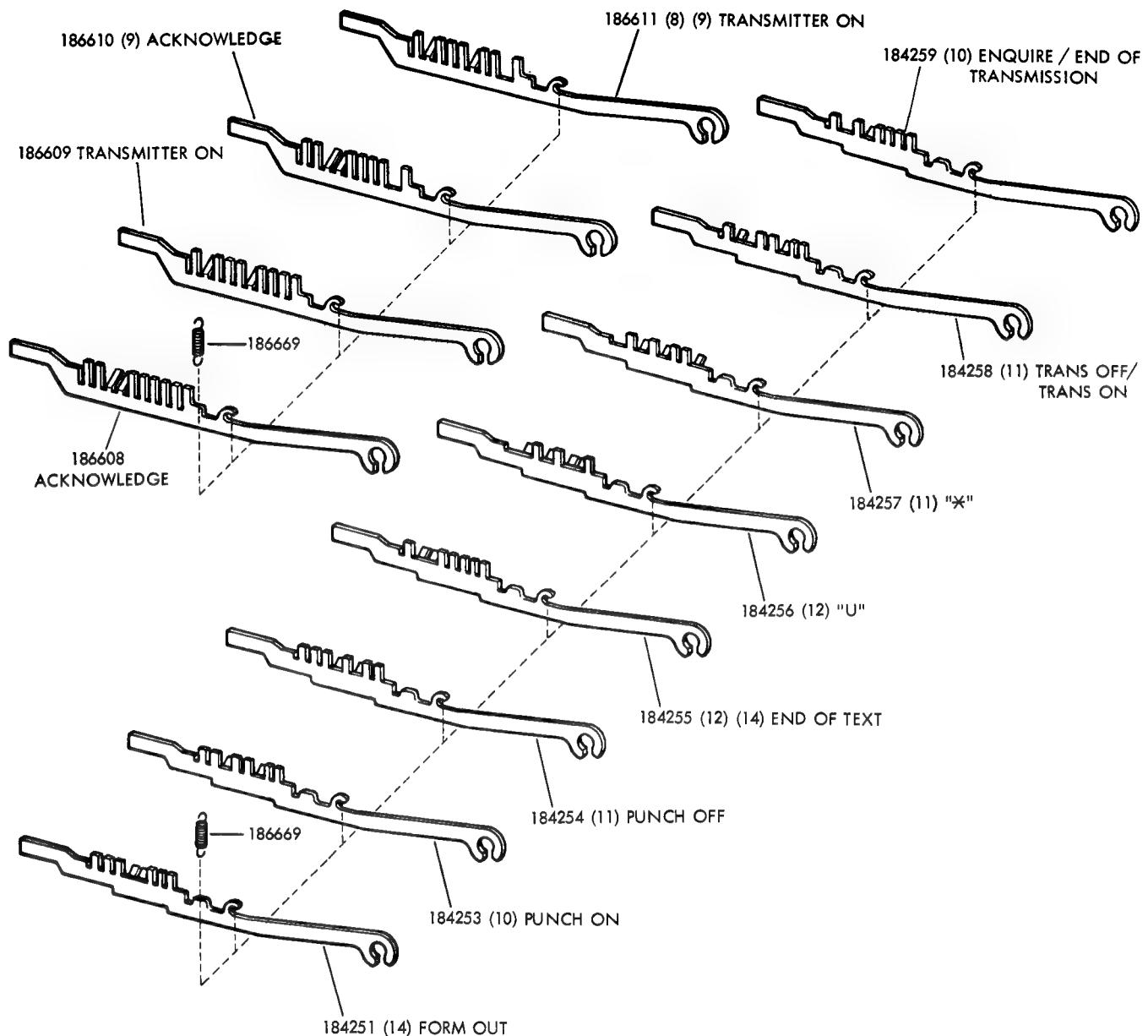
② ASCII 1967 Code

③ Peculiar to units equipped with automatic reader control

④ Peculiar to units having two-color printing

NOTE: Number or letter in parenthesis () indicates slot
Function Lever may occupy.

FIGURE 25. FUNCTION LEVERS



Coding a 180801 Uncoded Universal Function Lever, To perform a special function or contact closure, is to be done before installation of part. For 8 level usage starting at pivoted end, the tines are numbered 8, 6, 7, 5, 4, 3, 2, 1 and PS, tines 6 and 7 are not in numerical order. Choose the code combination the lever is to respond to. Note marking pulses. Break off the straight tines whose number corresponds to the marking pulses. Break off the bent tines whose number corresponds to the spacing pulses.

PS—Refers to Print Suppression and is broken off when printing is desired.

On eight level codes, break both tines on position 8 unless respond to parity level (8th) is required.

Note: Number or letter in parenthesis () indicates slot Function Lever may occupy.

FIGURE 26. FUNCTION LEVERS (CONTINUED)

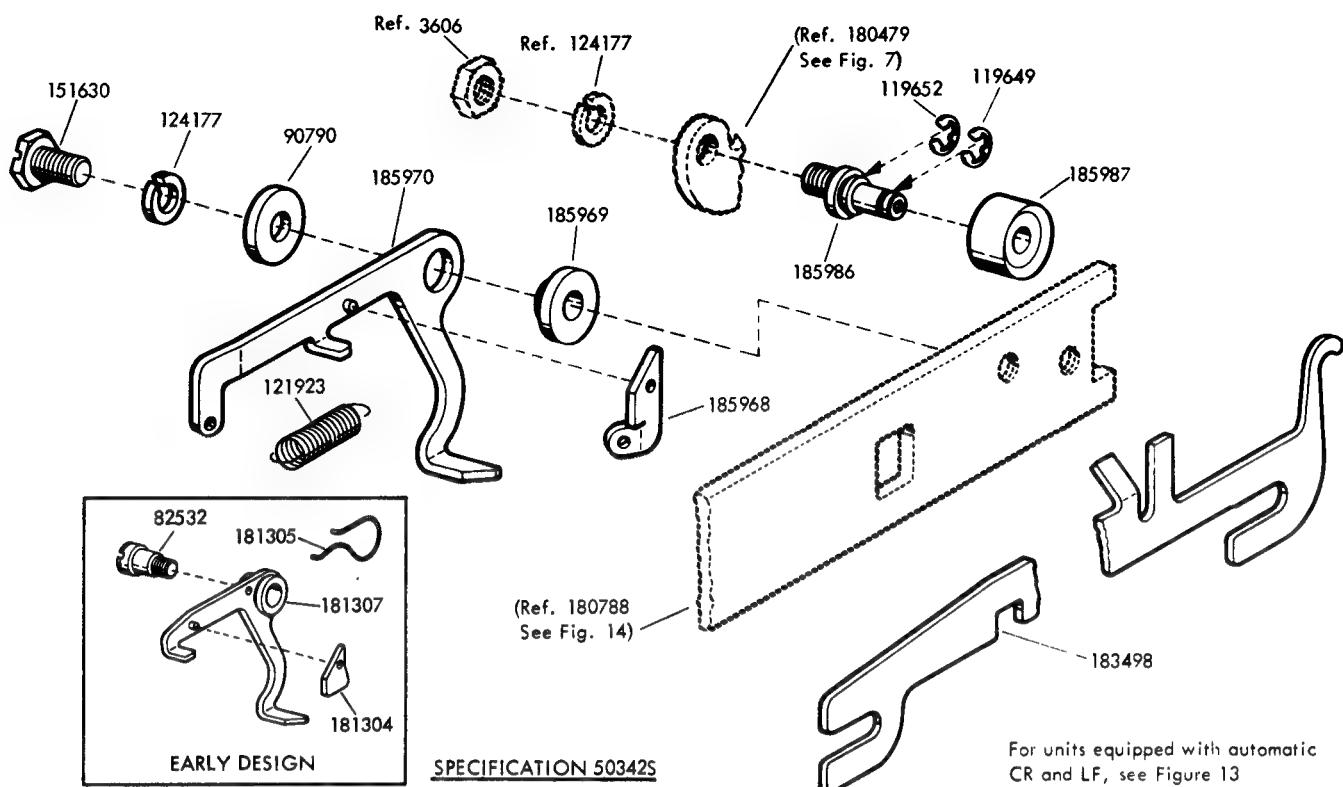


FIGURE 27. 185971 MODIFICATION KIT TO PROVIDE PRINTER WITH AN END-OFF-LINE BELL TO RING ON APPROXIMATELY THE 62ND CHARACTER

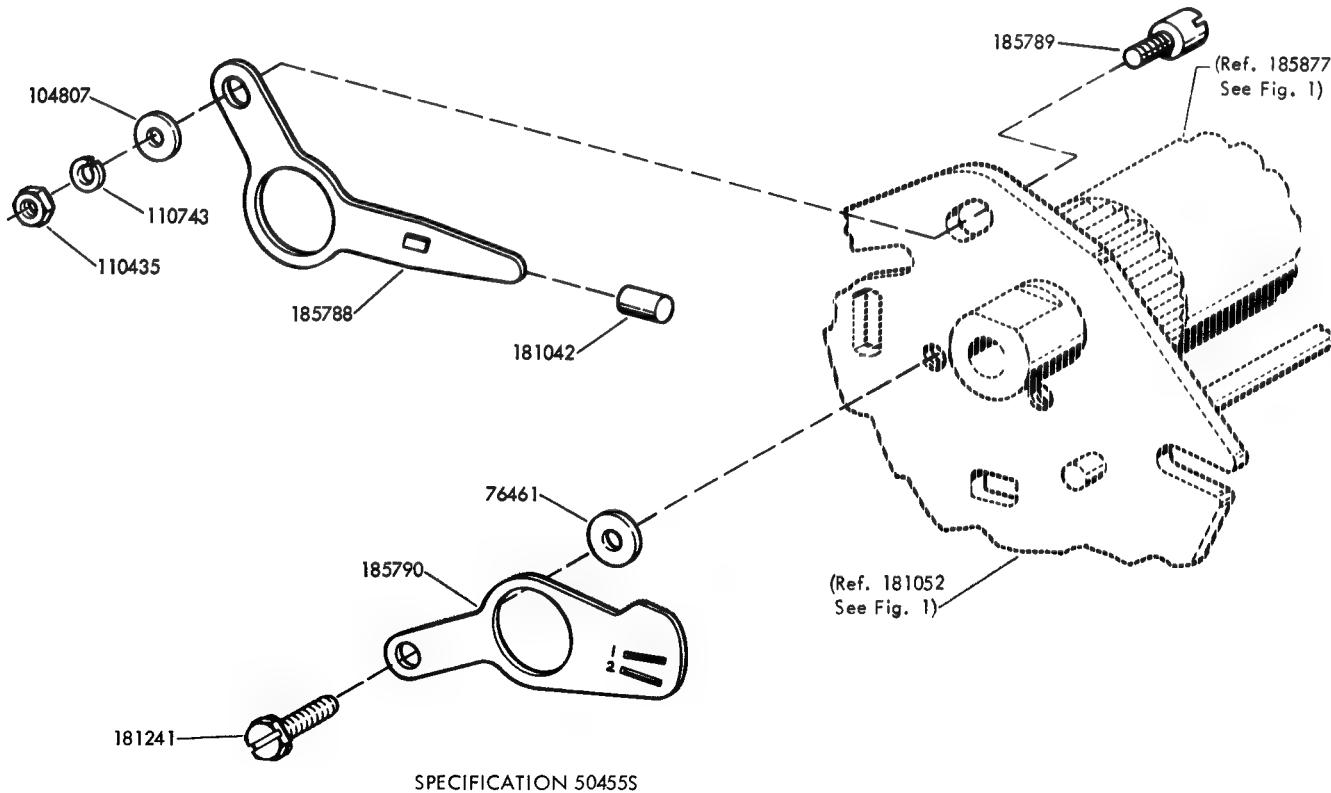


FIGURE 28. 185791 MODIFICATION KIT TO PROVIDE CONTROLLED SINGLE OR DOUBLE LINE FEED FEATURE ON FRICTION FEED PRINTER

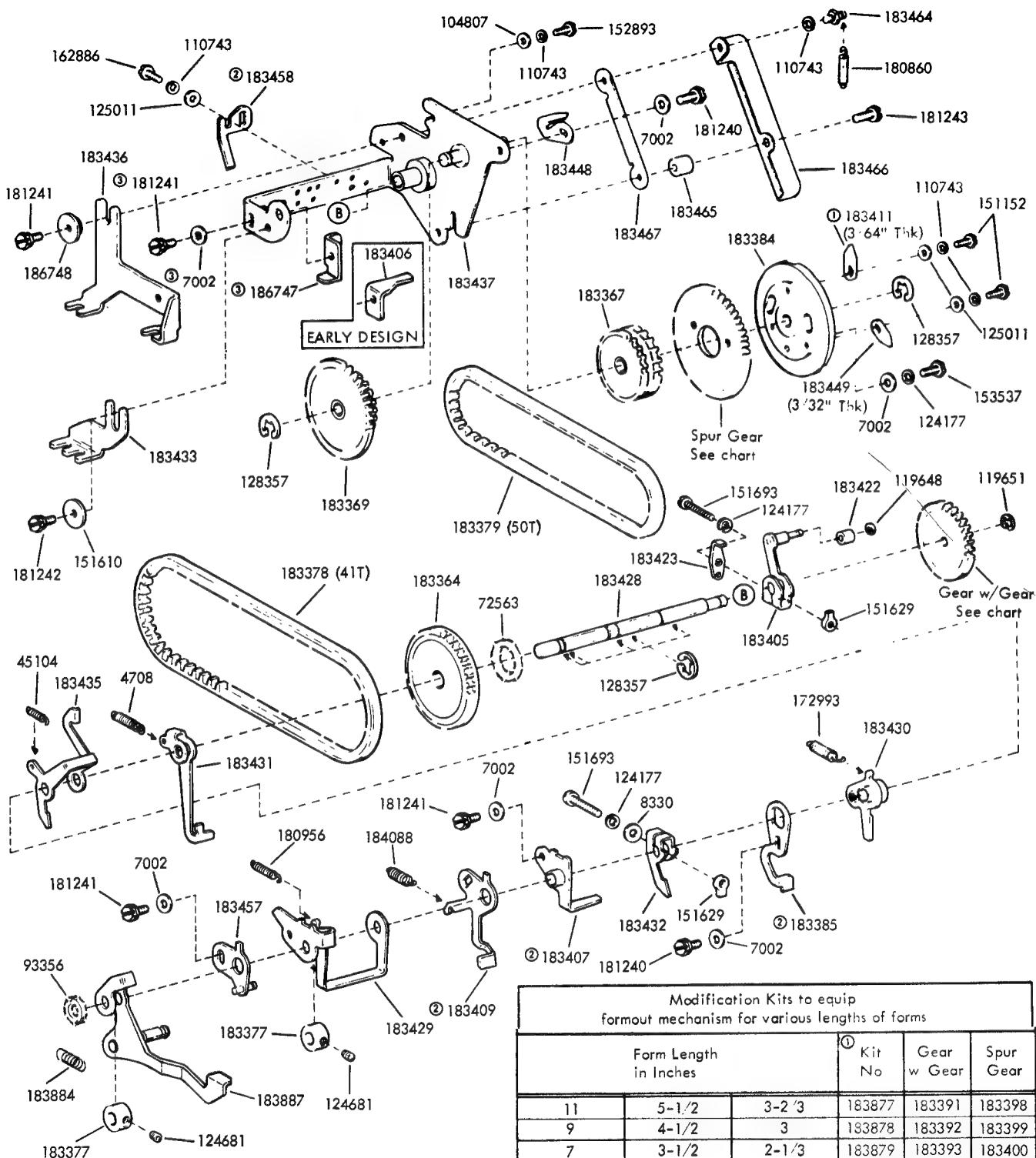
FIGURE 29. TYPEWHEEL CHART

FIGURE 30. TYPEWHEEL CHART (CONTINUED)

TYPEWHEEL	PART NO.	POSITION	CHARACTER																																												
			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	X	W	V	Y	Z	*	/)	(\$	>	<															
PE	184977	UNSHIFT	1	2	3	4	5	6	7	8	9	0	,	+	8	-	£	A	B	C	D	E	F	G	H	I	,	#	S	T	U	V	W	X	Y	Z	*	/)	(\$	>	<				
PE	184977	SHIFT										"	m	n	o	p	○																														
PF	184978	UNSHIFT	J	K	3	M	5	6	P	Q	9	PF	S	-]	;	✓	A	B	T	D	V	W	G	H	Z	x	/	S	C	U	E	F	X	Y	I	+	Δ	>	:	*	-					
PF	184978	SHIFT										.	[<	**	¶																															
PG	184979	UNSHIFT	K	L	M	N	O	P	Q	R	"	J	S	?	=	-	+	A	B	C	D	E	F	G	H	I	:	¤	S	T	U	V	W	X	Y	Z	0	/	Δ	*	€	-					
PG	184979	SHIFT										.	!	#	8	-																															
PH	184980	UNSHIFT																	□																												
PH	184980	SHIFT																																													
PJ	184981	UNSHIFT																		10	§	11																									
PJ	184981	SHIFT																		¢																											
*PL	184982	UNSHIFT																	≤	X																											
*PL	184982	SHIFT																																													
PM	184983	UNSHIFT																																													
PM	184983	SHIFT																	□																												
PN	184984	UNSHIFT																		~)																										
PN	184984	SHIFT																																													
PR	184985	UNSHIFT	¤	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z																			
PR	184985	SHIFT																																													
PS	186070	UNSHIFT																	^	-																											
PS	186070	SHIFT																	□																												
PT	184986	UNSHIFT																	£	‘	’																										
PT	184986	SHIFT																																													
PW	184987	UNSHIFT																		10																											
PW	184987	SHIFT																																													
PX	184988	UNSHIFT																	~	Λ	-																										
PY	184989	UNSHIFT																		+																											
PZ	184990	UNSHIFT	¤	*	+	1	&	J	K	L	M	N	O	P	Q	R	I																														
PZ	184990	SHIFT																	¬PZ																												
RA	184991	UNSHIFT																	¬	8	:	+	-																								
RA	184991	SHIFT																																													
RC	184993	UNSHIFT																																													
RD	184994	UNSHIFT																	■■■■																												
RF	164750	UNSHIFT																	®																												
RF	164750	SHIFT																	0																												
RH	184998	UNSHIFT																																													
RH	184998	SHIFT																																													
RJ	184999	UNSHIFT	()	<	>	-																																								
RJ	184999	SHIFT																																													
RL	185000	UNSHIFT																																													
SB	185484	UNSHIFT																																													
SB	185484	SHIFT																																													

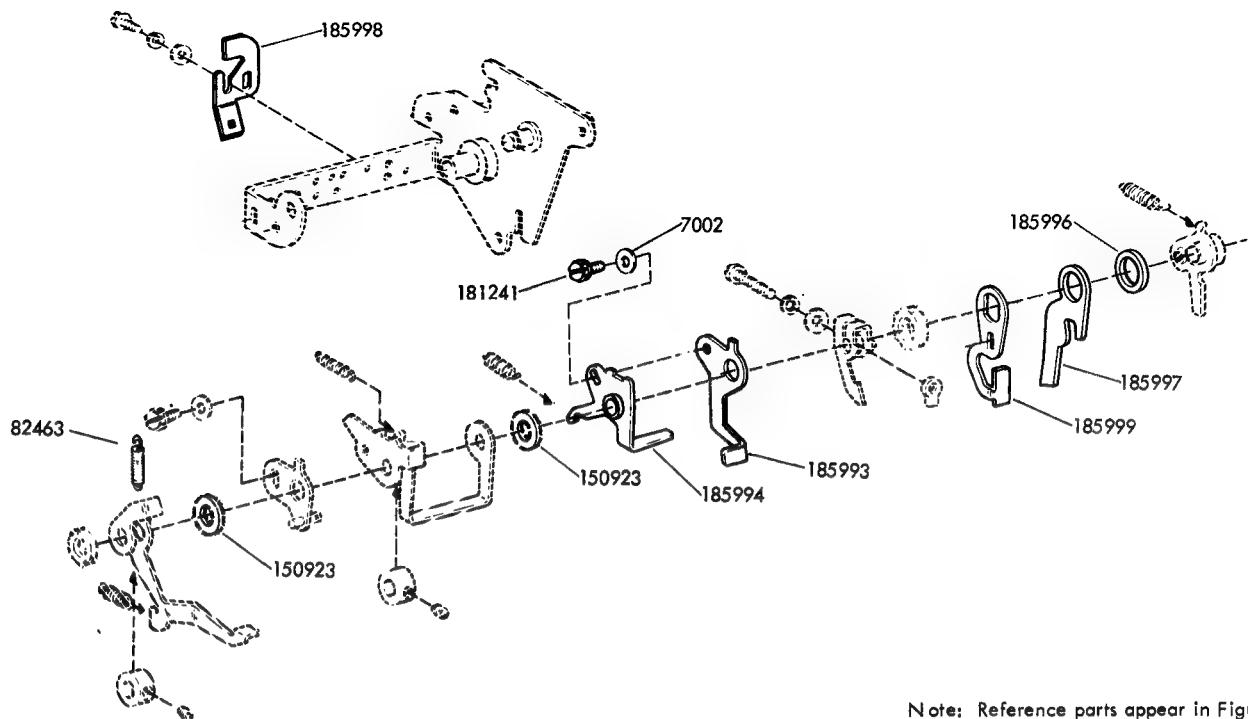
FIGURE 31. TYPEWHEEL CHART (CONTINUED)

Notes : Only deviations from the basic typewheel "MA" are shown. A blank space indicates that the character for that position is identical to the basic typewheel.
 Solid square (■) indicates printing is suppressed in this position.



- ① The required number of 183411 Cam Plates and mounting hardware are furnished with each kit (Specification 504105)
- ② Early design parts. See Figure 33 for later design.
- ③ These parts are factory adjusted and fixtured. Should they be loosened, remove and discard them. Then readjust.

FIGURE 32. FORMOUT MECHANISM - SPROCKET FEED



Note: Reference parts appear in Figure 32

FIGURE 33. LATER DESIGN FORMOUT MECHANISM - SPROCKET FEED

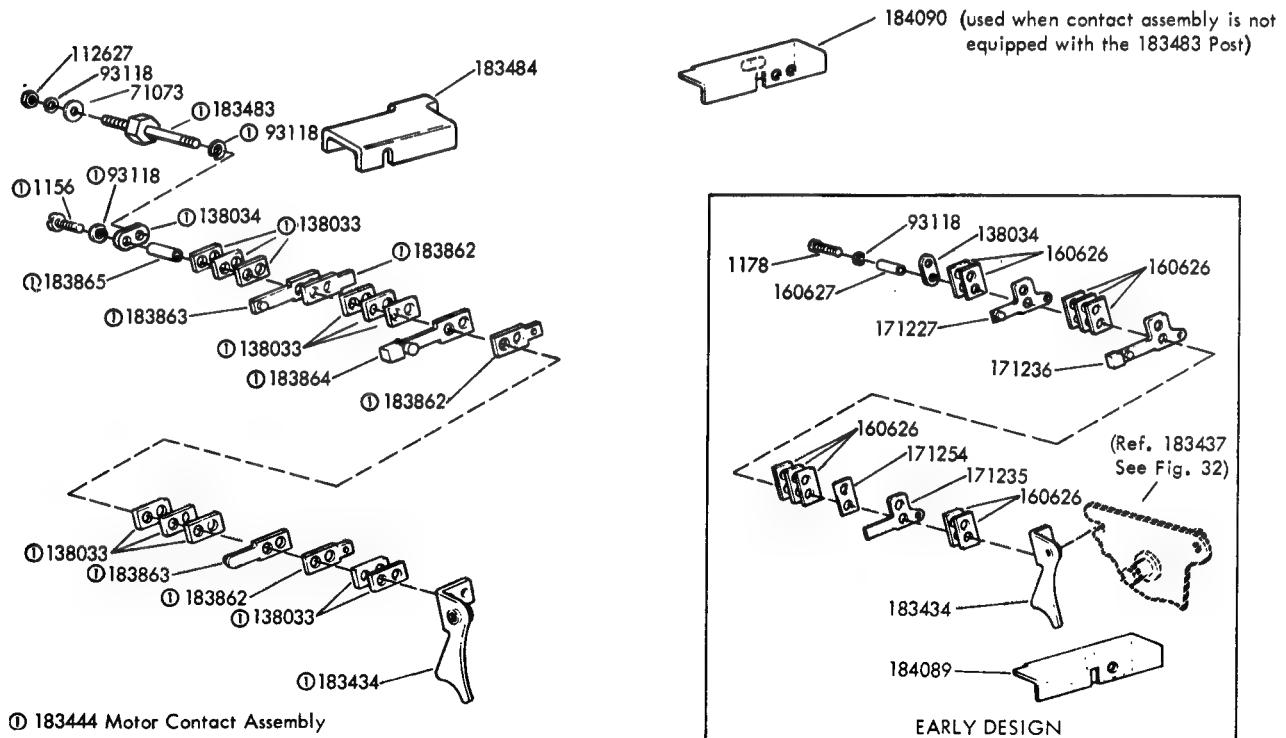


FIGURE 34. MOTOR CONTACT - SPROCKET FEED

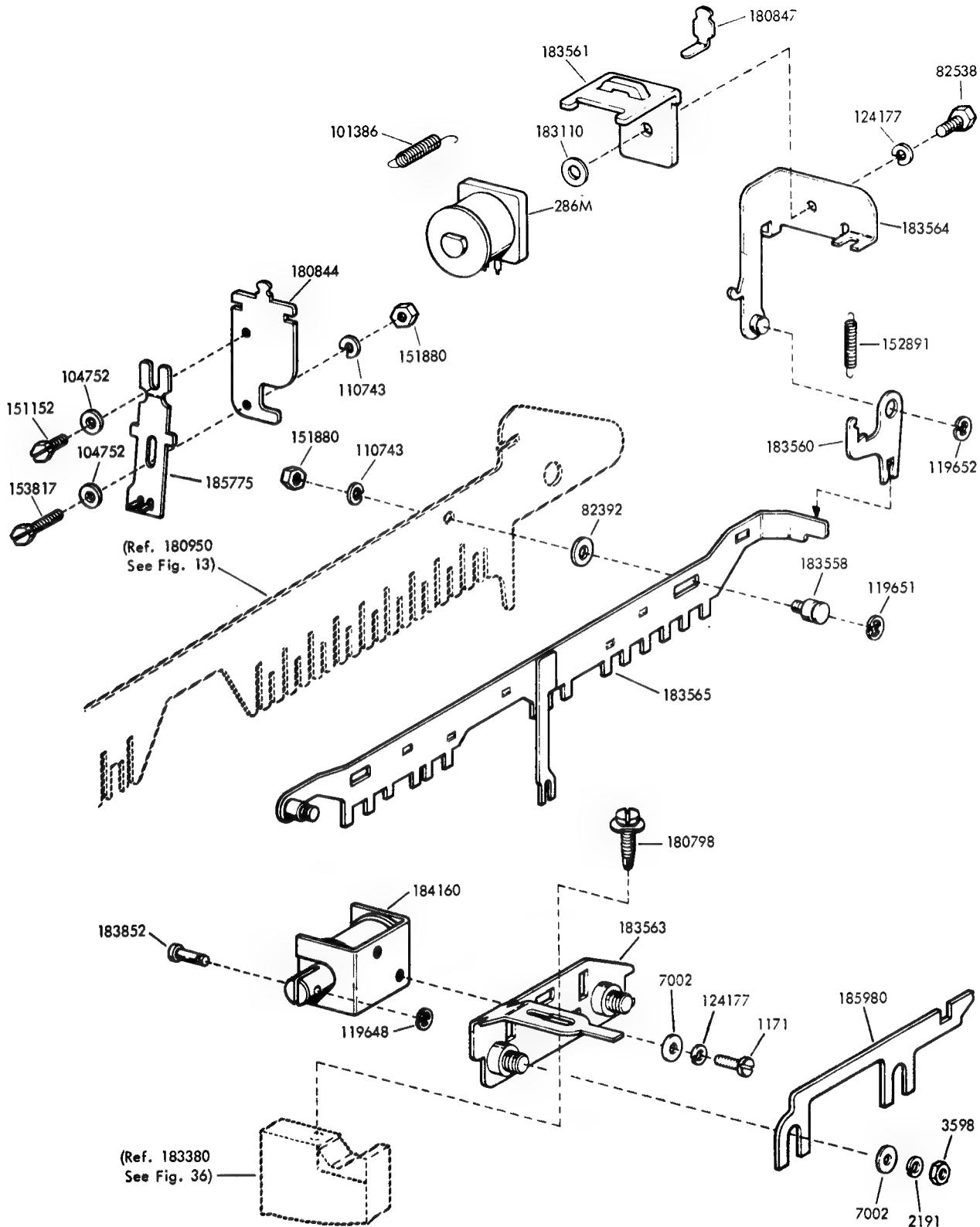
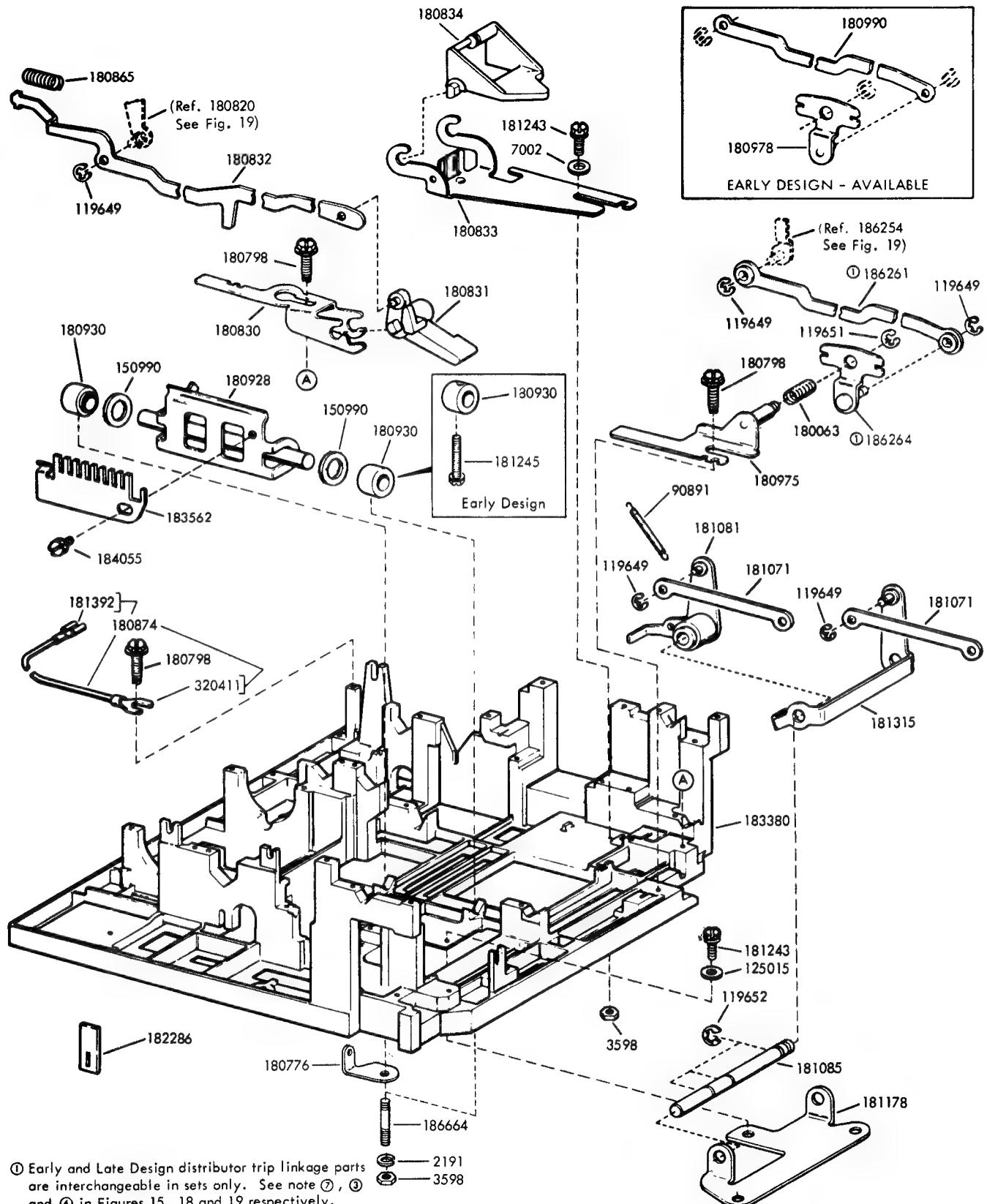
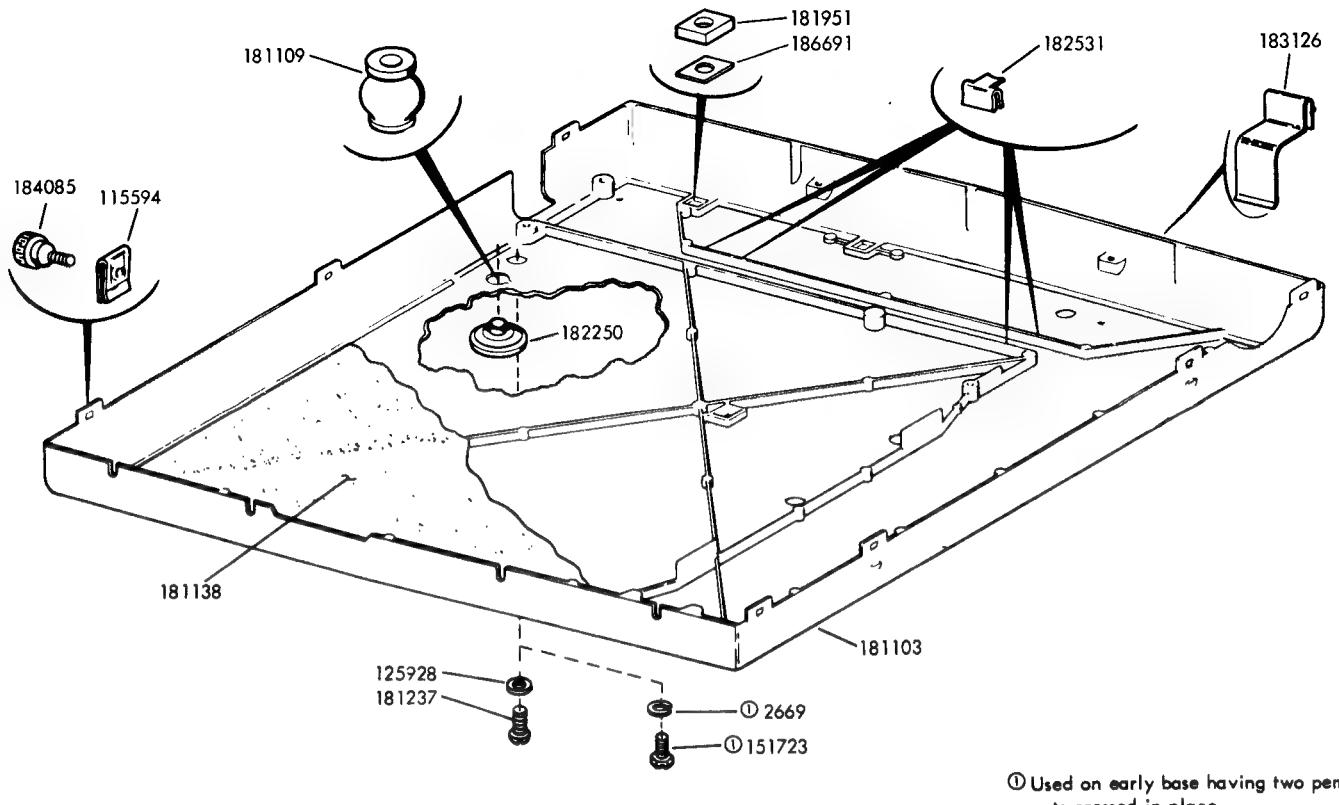


FIGURE 35. SOLENOID PRINT-NONPRINT RESET MECHANISM



① Early and Late Design distributor trip linkage parts
are interchangeable in sets only. See note ⑦, ③
and ④ in Figures 15, 18 and 19 respectively.

FIGURE 36. BASE



① Used on early base having two pem nuts pressed in place

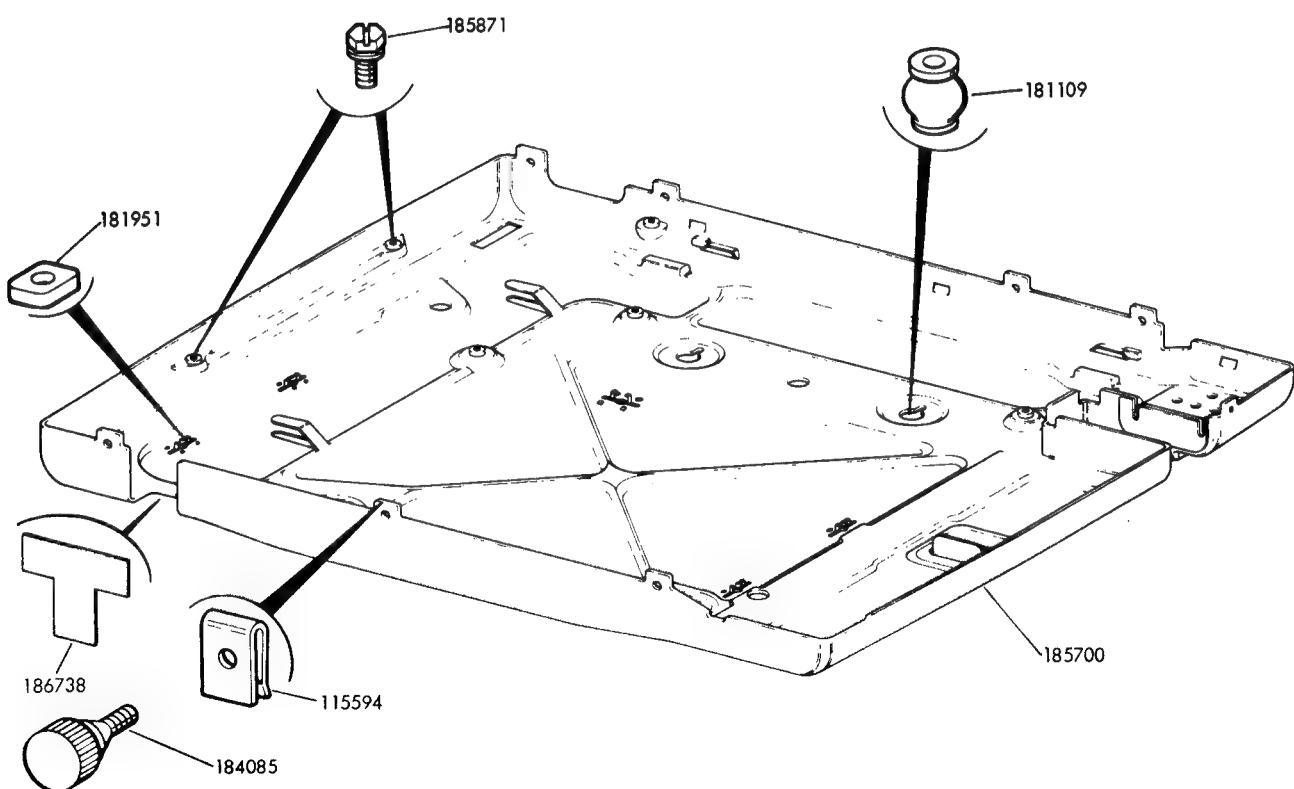
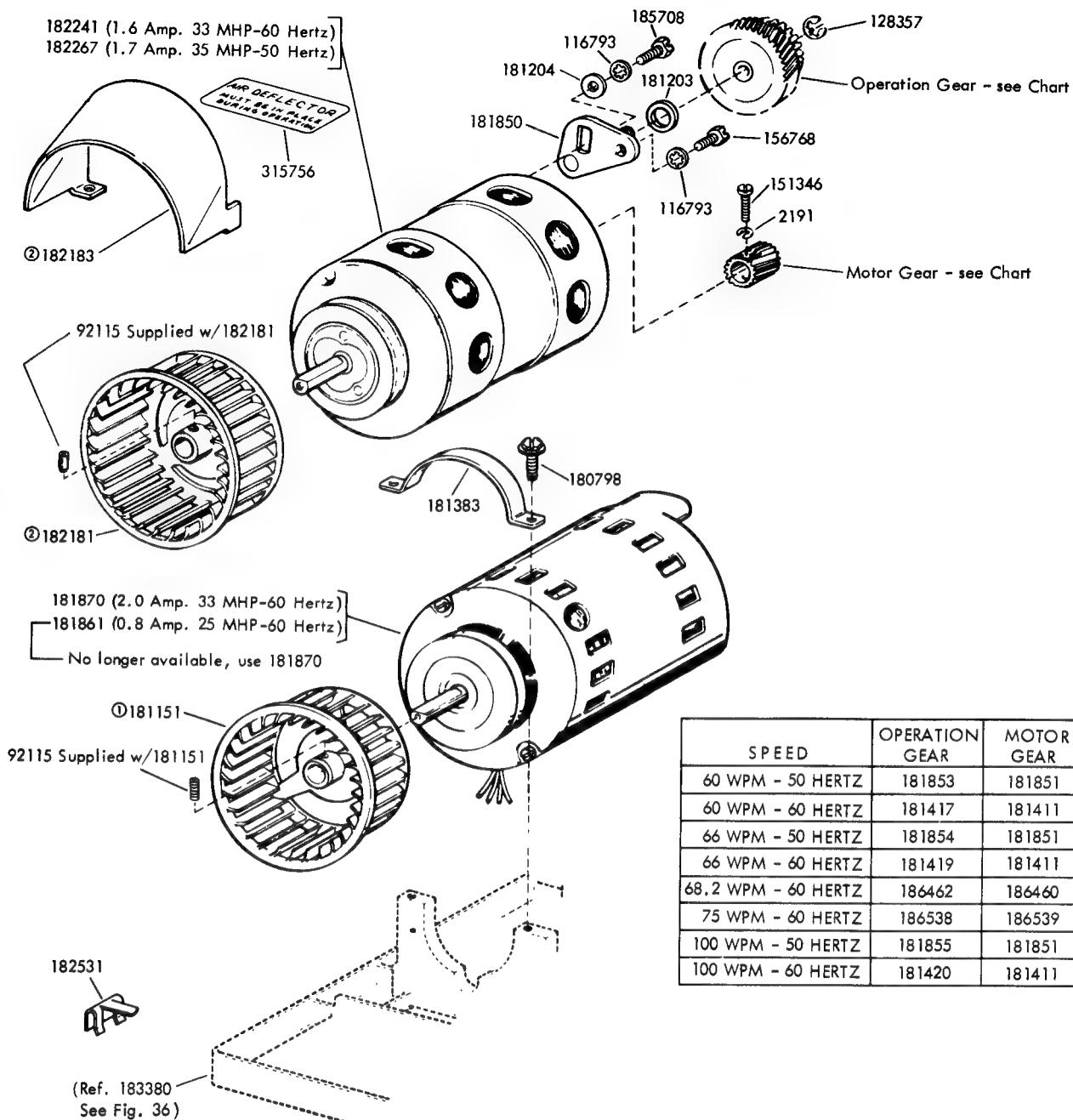


FIGURE 37. SUB BASES



SPEED	OPERATION GEAR	MOTOR GEAR
60 WPM - 50 HERTZ	181853	181851
60 WPM - 60 HERTZ	181417	181411
66 WPM - 50 HERTZ	181854	181851
66 WPM - 60 HERTZ	181419	181411
68.2 WPM - 60 HERTZ	186462	186460
75 WPM - 60 HERTZ	186538	186539
100 WPM - 50 HERTZ	181855	181851
100 WPM - 60 HERTZ	181420	181411

① The 181151 Fan (2-1/2" Dia.) is used with the 181870 and 182241 Motors.

② The 182181 Fan (3" Dia.), and the 182183 Air Deflector are used with the 182267 Motor.

FIGURE 38. MOTORS

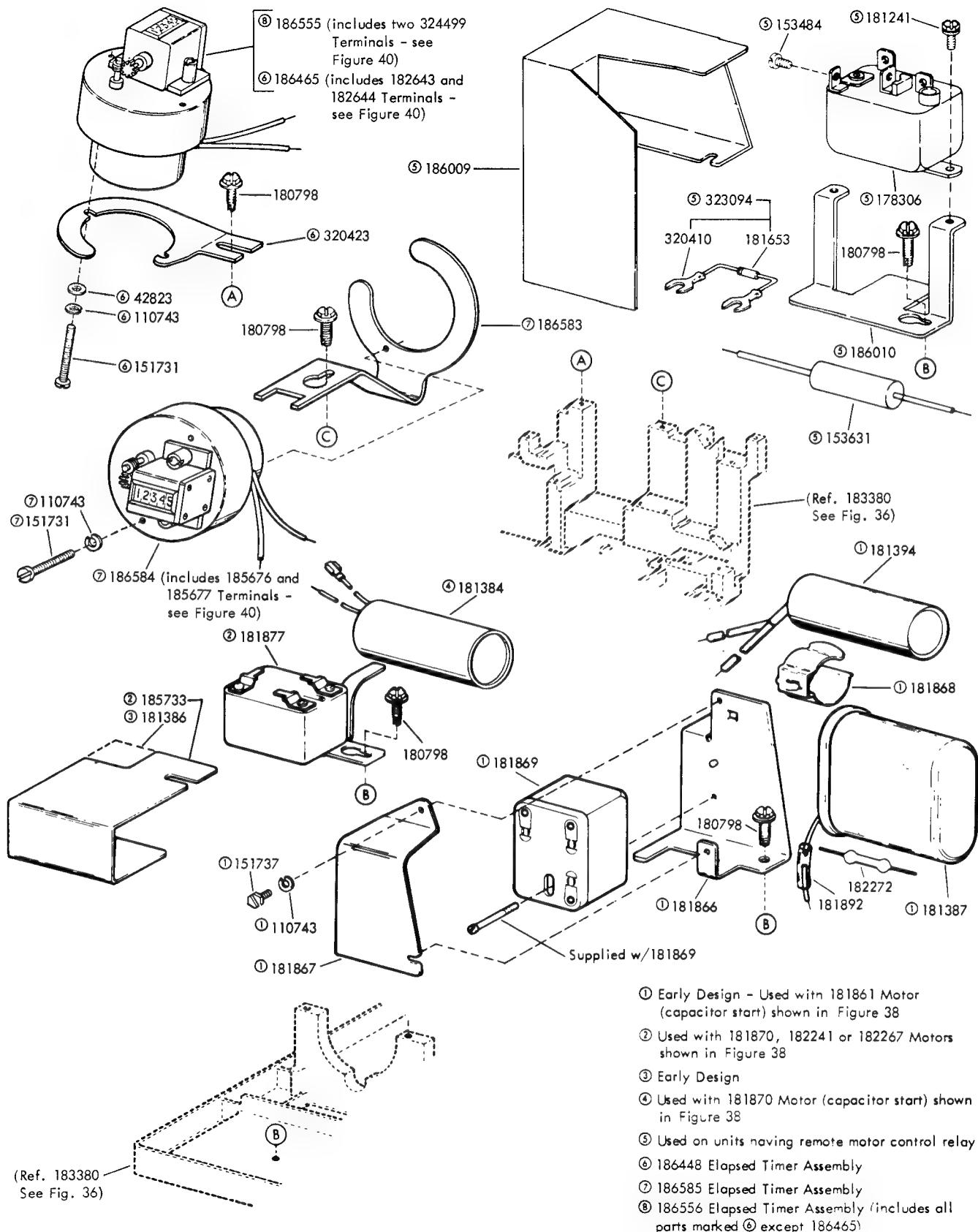


FIGURE 39. ELECTRICAL COMPONENTS

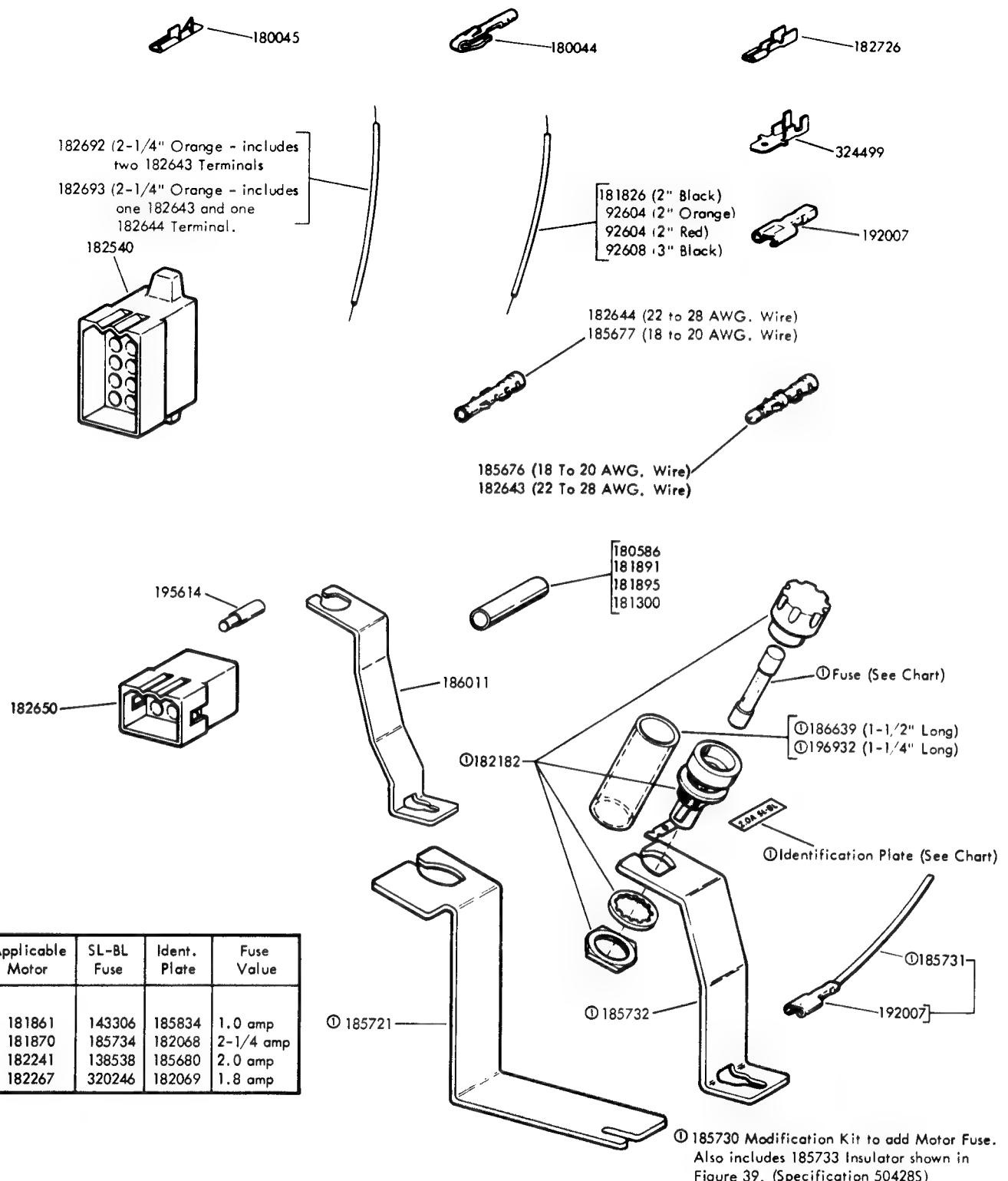


FIGURE 40. CABLE COMPONENTS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
272M	Coil, Magnet 22	72468	Spring 23	107116	Lockwasher 6
276M	Coil, Magnet 21	72509	Lockwasher 18	110435	Nut, 4-40 Hex 26
279M	Coil, Magnet 21	72563	Washer, Felt 30	110743	Lockwasher 4,6,7,9,10,14, 15,17,20,21,22,23,26,30, 32,36
286M	Coil, Magnet 32	74547	Collar 13		
295M	Coil, Magnet 21	74700	Spring 23	111410	Washer, Flat 9,19
300M	Coil, Magnet 21	74701	Spring 10,12	111640	Screw, 2-56 x 7/32 Fil 3
1156	Screw, 2-56 x 9/16 Fil 31	74716	Bushing, Insulating 17	112127	Hinge 17
1164	Screw, 2-56 x 3/16 Fil 5	74722	Washer, Flat 4	112128	Retainer 17
1171	Screw, 6-32 x 3/16 Fil 32	76099	Washer, Flat 17	112620	Screw, 4-40 x 1/2 Hex 16
1178	Screw, 2-56 x 7/16 Fil 31	76422	Spring 13,22	112626	Nut, 10-32 Hex 6
1210	Screw, 2-56 x 5/8 Fil 5	76461	Washer, Flat 21,26	112627	Nut, 2-56 Hex 31
2034	Washer, Flat 6,10,20,23	78103	Screw, 6-40 x 1-3/16 Hex 21	112630	Spring 3
2167	Ball, Bearing 9	80945	Spring 13	112634	Spring 6
2191	Lockwasher 2,7,9,11,12, 19,22,32,33,35	81726	Terminal 17	113384	Plate 17
2605	Spring 20	81731	Spring 8,20	114107	Spring 10
2669	Lockwasher 6,34	82392	Shim, .004" Thk 14,32	115594	Nut, Speed 34
3598	Nut, 6-40 Hex 2,4,6,7,8, 9,10,14,16,17,18,19,20, 21,22,32,33	82463	Spring 31	116793	Lockwasher 35
3599	Nut, 6-40 Hex 4,6,7,9,15, 20	82532	Screw, 6-40 Shoulder 26	119421	Washer, Flat 2,5
3606	Nut, 6-40 Hex 8,26	82538	Screw, 6-40 x 5/16 Hex 21,32	119648	Ring, Retaining 8,10,19, 22,30,32
3608	Spring 6	82547	Insulator, .094" Thk 17	119649	Ring, Retaining 3,4,7,8, 9,10,13,15,16,17,20,26,33
3640	Lockwasher 17	82548	Insulator, .062" Thk 17	119651	Ring, Retaining 2,3,4,6, 7,8,10,11,12,14,23,30,32, 33
3864	Spring 21	83877	Spring 17	119652	Ring, Retaining 4,8,10, 19,26,32,33
4703	Spring 10	84226	Spring 3,20	119653	Ring, Retaining 6,20
4708	Spring 30	84575	Spring 3,8,10,14	119654	Ring, Retaining 6,20
5599	Nut, 8-32 Hex 21	86283	Spring 15	120595	Follower, Cam 17
7001	Washer, Flat 19	87398	Washer, Flat 4	121018	Nut, 4-40 Hex 9
7002	Washer, Flat 2,3,4,5,6,7, 8,9,10,12,13,15,17,18,19, 20,22,23,30,31,32,33	87402	Spring 21	121100	Spring 17
7655	Spring 23	90361	Washer, Felt 23	121630	Washer, Flat 21
8330	Washer, Flat 13,30	90432	Washer, Flat 10	121923	Spring 26
22746	Spring 14	90615	Spring 3	124177	Lockwasher 2,3,4,7,8,9, 10,14,15,16,17,18,20,21, 26,30,32
31636	Spring 5,20	90790	Washer, Flat 10,15,26		
33765	Washer, Flat 3	90891	Spring 33	124612	Screw, 8-32 x 1/2 Hex 2
41732	Plate, Clamp 21	92115	Setscrew, 8-32 35	124681	Setscrew, 6-40 4,6,12,13, 16,30
42661	Spring 10	92527	Lockwasher 21	125011	Washer, Flat 15,17,30
42823	Washer, Flat 36	92604	Jumper, 2" Lg 37	125015	Washer, Flat 14,16,17,18, 33
44048	Washer, Flat 16,20	92608	Jumper, 3" Lg 37		
45027	Spring 8	93117	Lockwasher 3,5,16	125112	Screw, 2-56 x 1/8 Fil 17
45104	Spring 30	93118	Lockwasher 5,17,31	125181	Screw, 2-56 x 3/8 Fil 16
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182269	Modification Kit 20	183054	Stiffener, Rear 21	183360	Arm 16
182272	Resistor, 10 Ohm 36	183055	Spring, Contact 21	183361	Disc 12
182276	Lever, Answer-Back Trip 20,22	183056	Spring, Contact 21	183364	Pulley w/20T Gear, 30T 30
		183057	Insulator, .031" Thk 21	183367	Pulley w/28T Gear, 21T 30
		183058	Insulator, .062" Thk 21	183369	Pulley w/35T Gear, 21T 30
				183371	Bearing, Sleeve 12
				183372	Lever, Shoe Release 12
				183373	Disc, 6 Stop 12
				183374	Disc, 6 Stop 12
				183376	Collar 12
				183377	Collar 30

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
183378	Belt, 41T 30	183437	Bracket 30,31	183876	Screw, 6-32 Set 4
183379	Belt, 50T 30	183438	Stud 4	183877	Modification Kit 30
183380	Casting, Frame 2,5,6,8, 10,11,12,13,14,15,16,17, 19,20,22,23,32,33,35,36	183442	Lever w/Hub 4	183878	Modification Kit 30
183381	Washer, Flat 12	183443	Bracket 5	183879	Modification Kit 30
183382	Shaft, Main 12	183444	Contact Assembly 31	183880	Modification Kit 30
183383	Pulley, 15T 12	183445	Contact Assembly 5	183881	Modification Kit 30
183384	Disc 30	183448	Pointer 30	183882	Modification Kit 30
183385	Arm, Stop 30	183449	Plate, Index 30	183883	Modification Kit 30
183387	Pawl, Function 15	183450	Screw, 4-40 x 7/32 Flat 12	183884	Spring 30
183388	Pawl, Function 15	183454	Retainer, Spring 4	183887	Bail, L.F. 30
183389	Arm 12	183457	Plate 30	183922	Typewheel 27
183390	Arm w/Stud 16	183458	Plate, Stop 30	183993	Camsleeve 11,12
183391	Gear, 16T 30	183464	Post, Spring 30	183994	Link 9,10,11,12
183392	Gear, 20T 30	183465	Spacer 30	183995	Lever 9
183393	Gear, 40T 30	183466	Bracket 30	183998	Link, Toggle 10
183394	Gear, 20T 30	183467	Insulator 30	183999	Clutch Assembly 11,12
183395	Gear, 24T 30	183468	Lever, Strip 23	184006	Spacer, .050" Thk 11,12
183396	Gear, 20T 30	183469	Plate 23	184006	Screw, 8-32 Self-Tapping 8,10,13,15,22
183397	Gear, 24T 30	183474	Modification Kit 6,7	184055	Screw w/Lockwasher, 6-24 x 3/16 Hex 33
183398	Gear, 44T 30	183483	Post 31	184085	Screw, 8-32 Thumb 34
183399	Gear, 45T 30	183484	Cover, Contact 31	184088	Spring 30
183400	Gear, 70T 30	183492	Clutch Assembly 12	184089	Shield 31
183401	Gear, 40T 30	183495	Bar, Code 14	184090	Shield 31
183402	Gear, 51T 30	183496	Bar, Code 14	184096	Bracket 10
183403	Gear, 50T 30	183497	Bar, Code 14	184148	Contact, Wire 22
183404	Gear, 36T 30	183498	Bar, Code 14,26	184149	Drum, Answer-Back 22
183405	Bail 30	183499	Lever, Blocking 23	184157	Modification Kit 23
183406	Bracket, Stop 30	183503	Housing, Bearing 9	184160	Solenoid 32
183407	Arm 30	183504	Retainer, Bearing 9	184201	Lever 20
183408	Arm 12	183510	Cable Assembly 22	184251	Lever w/Bracket 25
183409	Arm, Latch 30	183552	Lever 24	184253	Lever 25
183411	Plate, Cam 30	183558	Post 14,32	184254	Lever 25
183415	Roller 19	183560	Lever 32	184255	Lever 25
183418	Shaft, Distributor 19	183561	Bracket, Magnet 32	184256	Lever 25
183422	Roller 30	183562	Bracket 33	184257	Lever 25
183423	Bracket, Spring 30	183563	Bracket 32	184258	Lever 25
183425	Clamp 15,16	183564	Bracket w/Stud 32	184259	Lever 25
183426	Clamp 15	183565	Bar w/Link 32	184280	Knob Assembly 4
184428	Shaft 30	183567	Bar 14	184685	Typewheel, MD 27
183429	Bail 30	183588	Typewheel, MD 27	184686	Typewheel, ME 27
183430	Arm 30	183599	Typewheel, ME 27	184688	Typewheel, MJ 27
183431	Bail, Clutch Latch 30	183851	Retainer, Left 23	184689	Typewheel, MK 27
183432	Bail, Reset 30	183852	Pin 32	184690	Typewheel, ML 27
183433	Bracket, Side 30	183853	Retainer, Right 23	184691	Typewheel, MN 27
183434	Bracket, Contact Switch 31	183861	Plate, Stop 5	184692	Typewheel, MU 27
183435	Bail, Contact Switch 30	183862	Terminal 5,31	184693	Typewheel, MP 27
183436	Bracket 30	183863	Spring, Contact 5,31	184694	Typewheel, MT 27
		183864	Spring, Contact 5,31	184695	Typewheel, MR 27
		183865	Bushing, Insulating 5,31		

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
184696	Typewheel, MV 27	185000	Typewheel, RL 29	186011	Bracket 37
184697	Typewheel, MW 27	185484	Typewheel, SB 29	186014	Bracket, Contact 17
184698	Typewheel, MY 27	185676	Terminal, Plug Type 21, 22,36,37	186025	Contact Assembly 17
184950	Typewheel, MS 27	185677	Terminal, Receptacle Type 36,37	186052	Spacer, .183" Thk 19
184951	Typewheel, MZ 27	185680	Plate, Identification 37	186053	Nut, Speed 19
184952	Typewheel, NA 27	185700	Base 34	186070	Typewheel, PS 29
184953	Typewheel, NB 27	185708	Screw, 8-32 x 3/8 Hex 35	186175	Bracket 6
184954	Typewheel, HC 28	185721	Bracket, Fuse 37	186213	Hub 16
184955	Typewheel, ND 28	185730	Modification Kit 37	186214	Washer, Spl 16
184956	Typewheel, NE 28	185731	Jumper, 3-3/4" Black 37	186240	Set of Parts 16
184957	Typewheel, NF 28	185732	Bracket, Fuse 37	186247	Shaft 11
184958	Typewheel, NG 28	185733	Insulator 36,37	186248	Shaft 12
184959	Typewheel, NH 28	185734	Fuse, SL-BL 2-1/4 Amp 37	186249	Cam, Selector 18
184960	Typewheel, NK 28	185736	Bracket, Spring 10	186253	Lever w/Hub 20
184961	Typewheel, NL 28	185775	Extension, Armature 21, 22,32	186254	Lever, Cam Follower 20,33
184962	Typewheel, NM 28	185788	Arm 26	186257	Clamp 20
184963	Typewheel, NP 28	185789	Stud 26	186259	Clamp, Bearing 16
184964	Typewheel, NR 28	185790	Plate, Detent 26	186261	Link 33
184965	Typewheel, NS 28	185791	Modification Kit 1,26	186262	Shaft, Trip Pivot 20,22
184966	Typewheel, NT 28	185796	Bracket 2	186264	Lever w/Stud 33
184967	Typewheel, NU 28	185799	Shaft 6	186265	Buffer 20
184968	Typewheel, NV 28	185816	Screw, 6-40 x 5/16 Spl 2	186268	Shaft, Distributor 19
184969	Typewheel, NW 28	185834	Plate, Identification 37	186271	Shaft, Distributor 19
184970	Typewheel, NX 28	185871	Screw w/Lockwasher, 8-32 x 3/8 Hex 34	186313	Lever 24
184971	Typewheel, NY 28	185877	Platen 2,26	186401	Clutch Assembly 18
184972	Typewheel, NZ 28	185945	Insulator 5	186412	Arm 16
184973	Typewheel, PA 28	185968	Latch 26	186413	Arm 16
184974	Typewheel, PB 28	185969	Hub 26	186432	Guideplate 7
184975	Typewheel, PC 28	185970	Lever w/Post 26	186442	Piston 9
184976	Typewheel, PD 28	185971	Modification Kit 1,26	186443	Bumper 9
184977	Typewheel, PE 29	185975	Guidepost 6	186445	Cover, Contact 17
184978	Typewheel, PF 29	185980	Retainer 32	186446	Lever, Blocking 17
184979	Typewheel, PG 29	185984	Lever 24	186447	Lever, Blocking 17
184980	Typewheel, PH 29	185985	Lever 24	186448	Timer Assembly 36
184981	Typewheel, PJ 29	185986	Post 8,26	186460	Pinion, 19T 35
184982	Typewheel, PL 29	185987	Roller 8,26	186462	Pulley w/64T Gear, 13T 35
184983	Typewheel, PM 29	185989	Collar 4	186465	Timer Assembly 36
184984	Typewheel, PN 29	185990	Platen 4	186468	Lever 24
184985	Typewheel, PR 29	185993	Arm, Latch 31	186536	Set of Parts 9
184986	Typewheel, PT 29	185994	Arm w/Hub 31	186538	Pulley w/52T Gear 35
184987	Typewheel, PW 29	185996	Spacer 31	186539	Gear 35
184988	Typewheel, PX 29	185997	Plate, Stop 31	186555	Timer, Elapsed 36
184989	Typewheel, PY 29	185998	Plate 31	186556	Timer Assembly, Elapsed
184990	Typewheel, PZ 29	185999	Arm, Stop 31	36	
184991	Typewheel, RA 29	186009	Insulator 36	186557	Bracket 15
184993	Typewheel, RC 29	186010	Bracket 36	186575	Arm 11,12,16
184994	Typewheel, RD 29			186576	Arm 16
184996	Typewheel, RF 29			186583	Plate 36
184998	Typewheel, RH 29			186584	Timer Assembly 36
184999	Typewheel, RJ 29			186585	Timer Assembly 36
				186606	Set of Parts 4

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
186608	Lever 25	186731	Ring, Compression 13	197464	Diode 15
186609	Lever 25	186734	Insulator 17	198670	Screw w/Lockwasher, 6-40 x 5/16 Hex 2,3,4,5,10
186610	Lever 25	186738	Insulator 34	199440	Screw, 5-40 x 4/8 Fil 11, 12
186611	Lever 25	186747	Bracket 30		
186639	Sleeve, 7/16 ID x 1-1/2" Lg Insulating 37	186748	Spacer 30		
186642	Knob 18	186778	Screw, 6-40 x 7/32 Hex 18	315756	Plate, Identification 35
186664	Post 33	186796	Lever, Function 24	320246	Fuse, SL-BL 1.8 Amp 37
186665	Set of Parts 2	192007	Terminal, Tab Type 37	320410	Terminal, Spade Type 36
186669	Spring 3,18,24,25	194956	Spring 12	320411	Terminal, Spade Type 33
186691	Insert 34	194987	Screw, 8-32 x 3/8 Hex 5, 16	320423	Plate 36
186695	Link 7	195614	Pin, Key 37	323094	Diode 36
186696	Link w/Stud 7	196932	Sleeve, 7/16 ID x 1-1/4" Lg Insulating 37	324499	Terminal 36,37
186697	Set of Parts 7			327323	Ring, Retaining 16

33 CALL CONTROL UNIT (UCC)

PARTS

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3	Electrical Components for use with Rotary Dial	4
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7	Electrical Components for Computer Control Private Line	8
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18	186602, 186603, 193488 and 195927 Dial Modifications	19
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22	Cable Components	23
23	186670 Modification Kit to Provide Private Line Numerical Index	24
		25

**Denotes a painted part.
HF-Light Olive Gray Smooth Vinyl

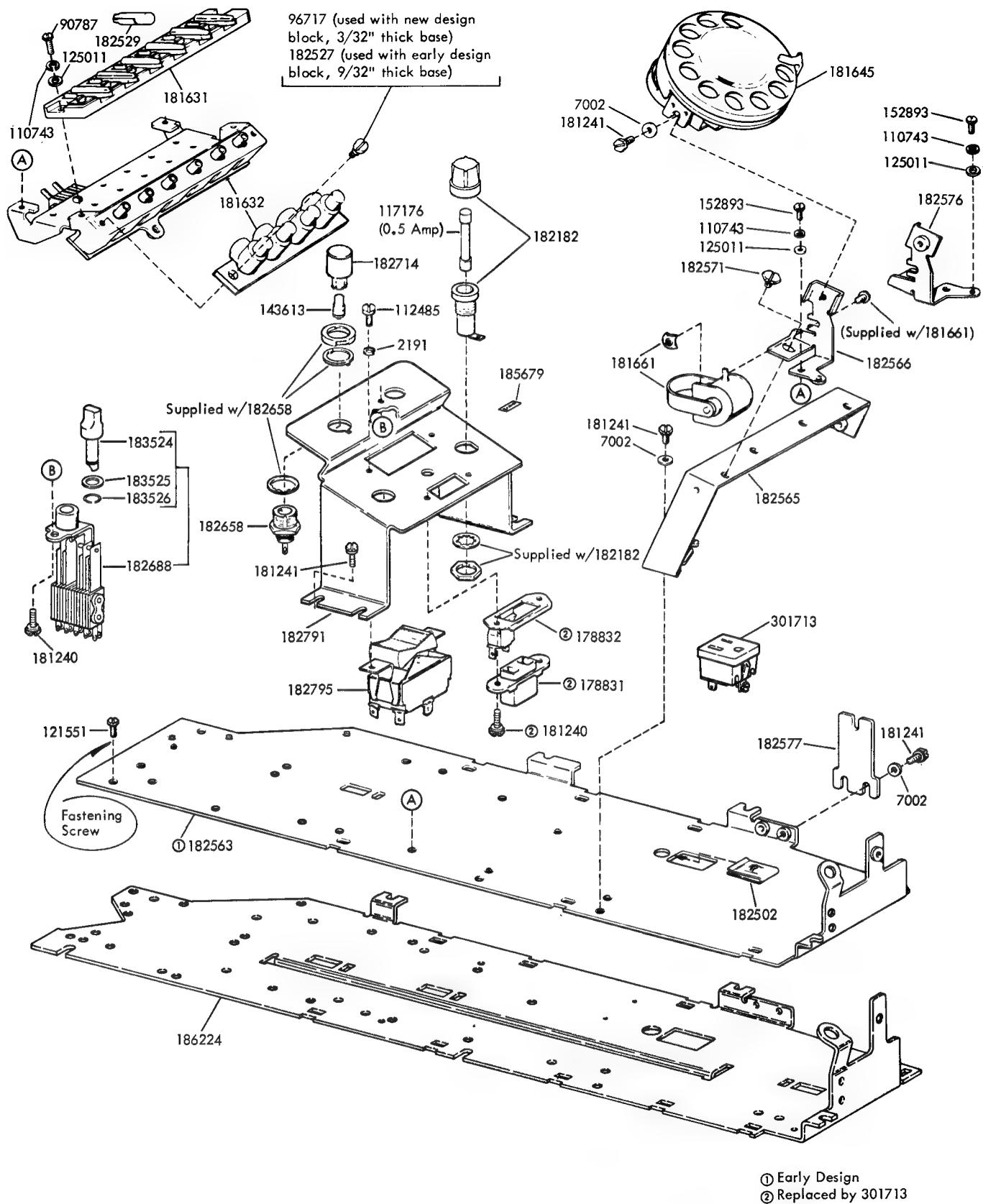


FIGURE 1. BASE PLATE COMPONENTS FOR USE WITH ROTARY DIAL

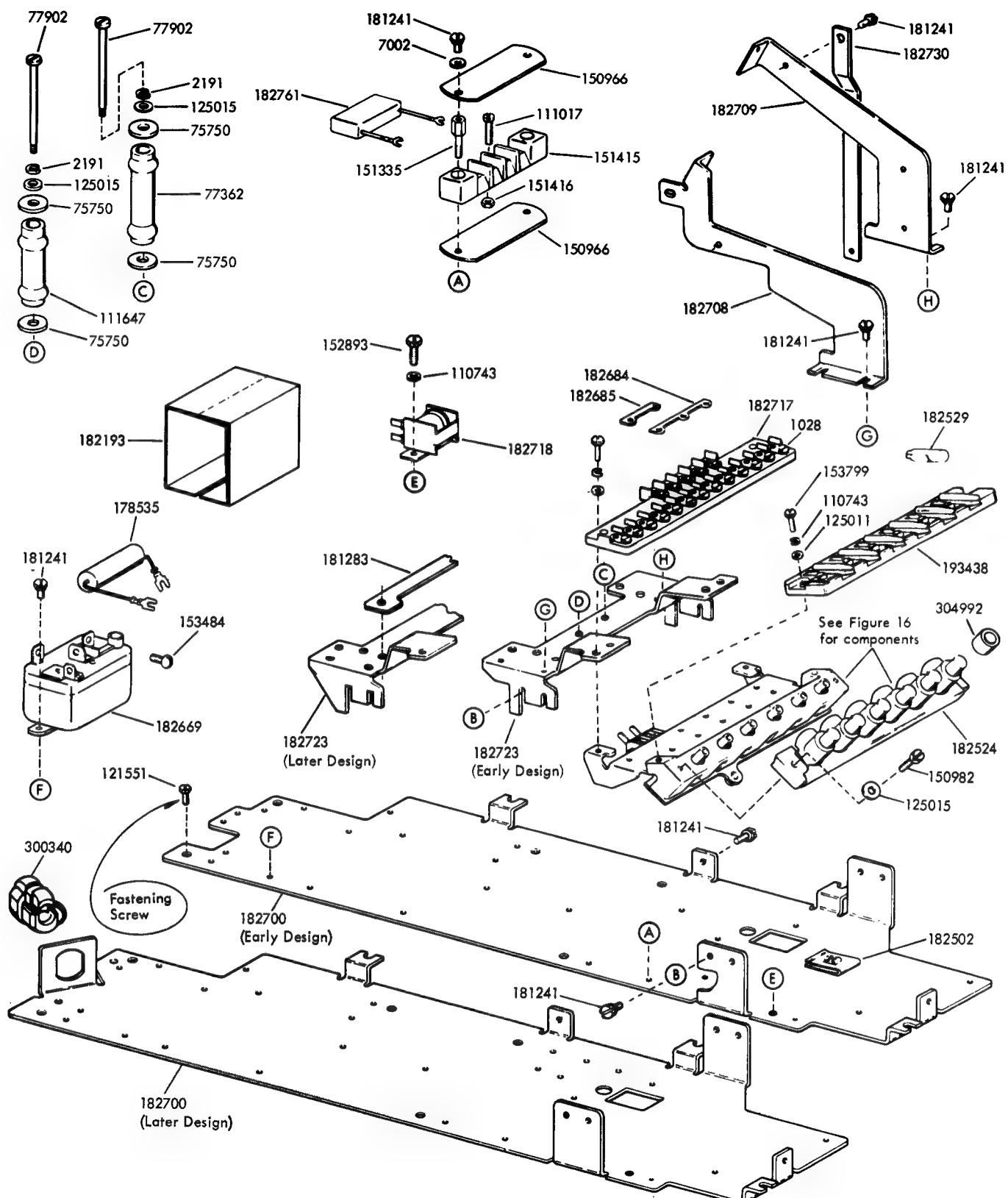
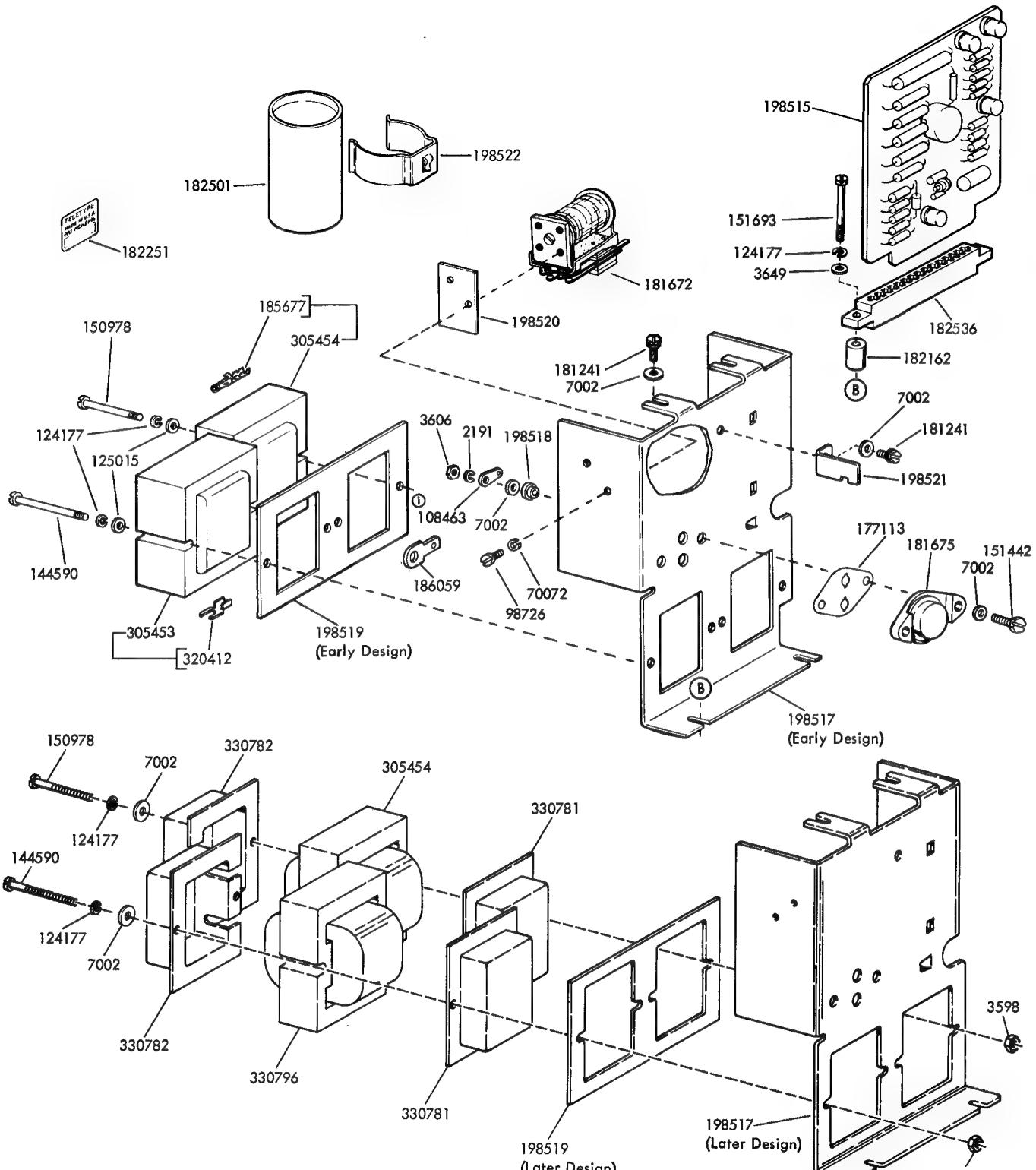


FIGURE 2. BASE PLATE COMPONENTS FOR USE WITH
TOUCH-TONE OR CARD DIALING



NOTE: Transformer shields 330782
cannot be used with Early Design
198517 bracket and 198519 insulator
① Replaced by 186059

FIGURE 3. ELECTRICAL COMPONENTS FOR USE WITH ROTARY DIAL

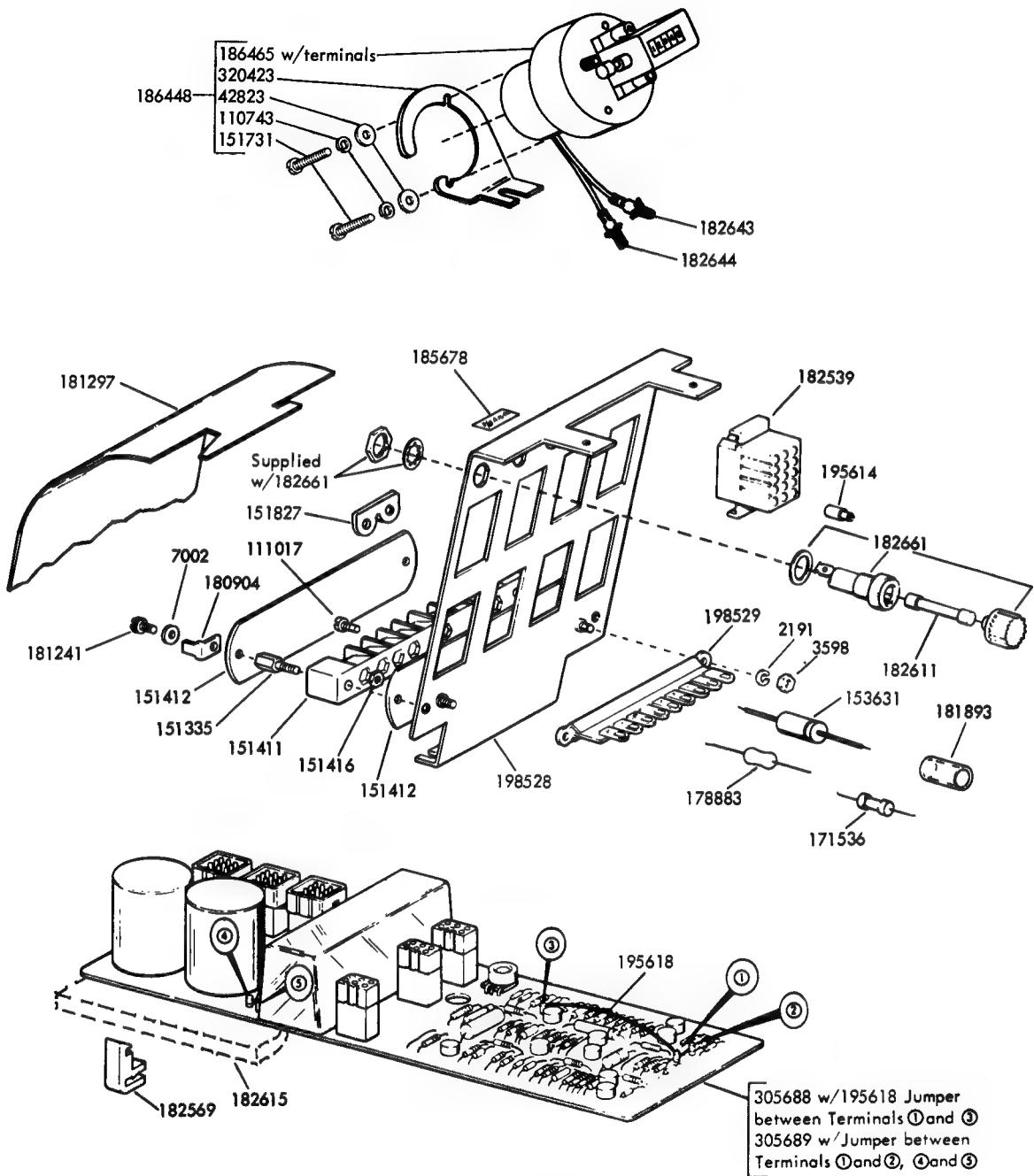


FIGURE 4. ELECTRICAL COMPONENTS FOR USE WITH ROTARY DIAL (Continued)

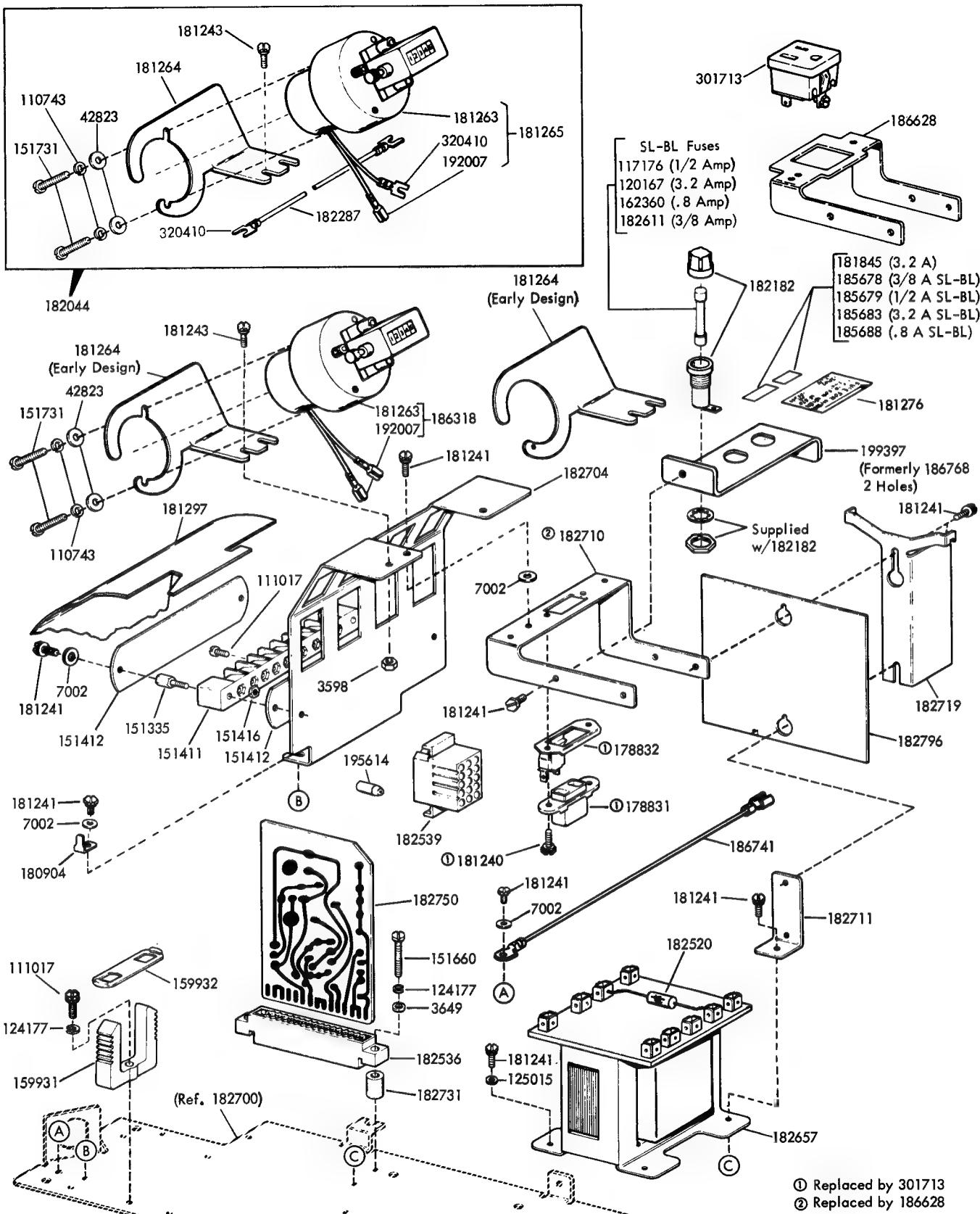


FIGURE 5. ELECTRICAL COMPONENTS FOR USE WITH TOUCH-TONE OR CARD DIALING

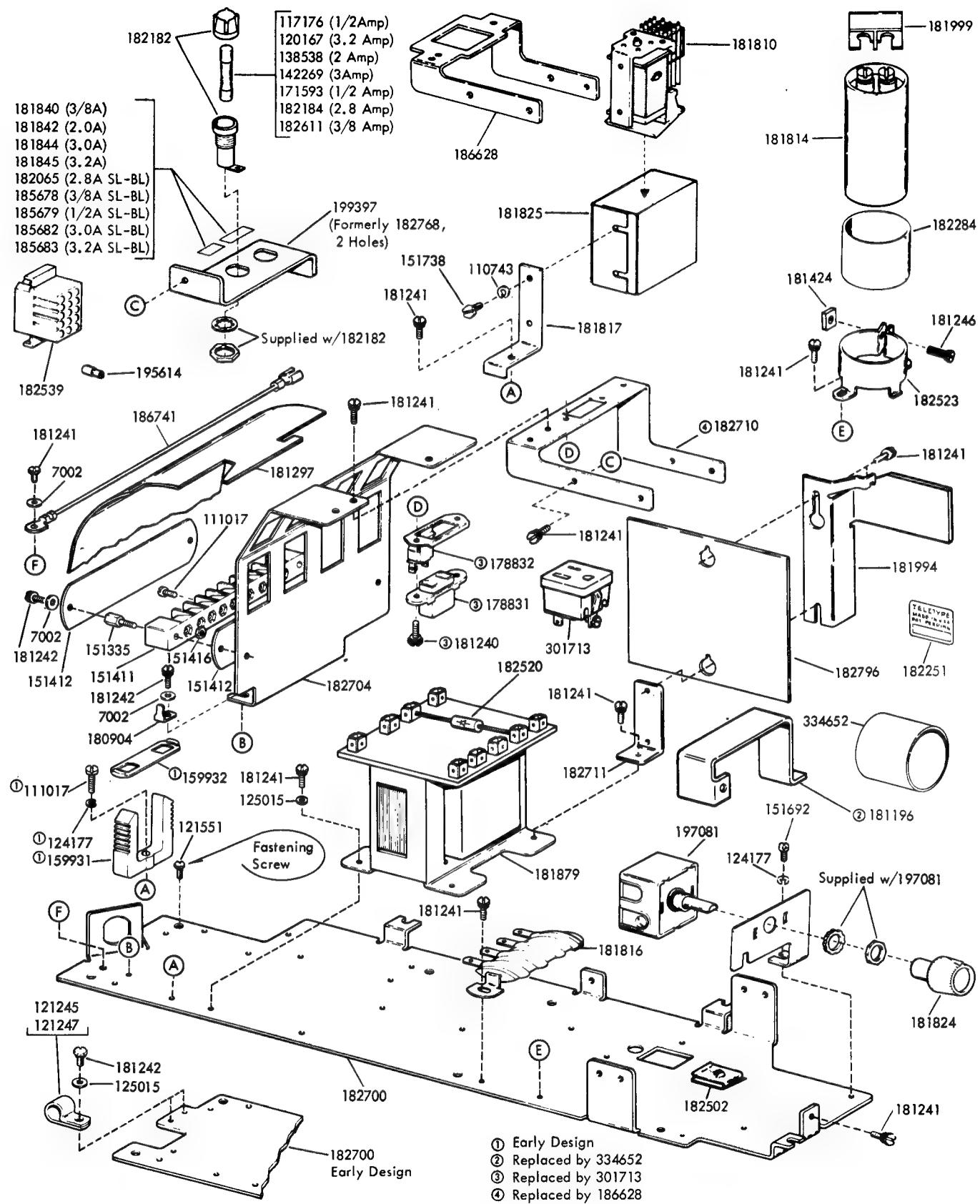


FIGURE 6. BASE PLATE AND ELECTRICAL COMPONENTS FOR DC SIGNAL PRIVATE LINE

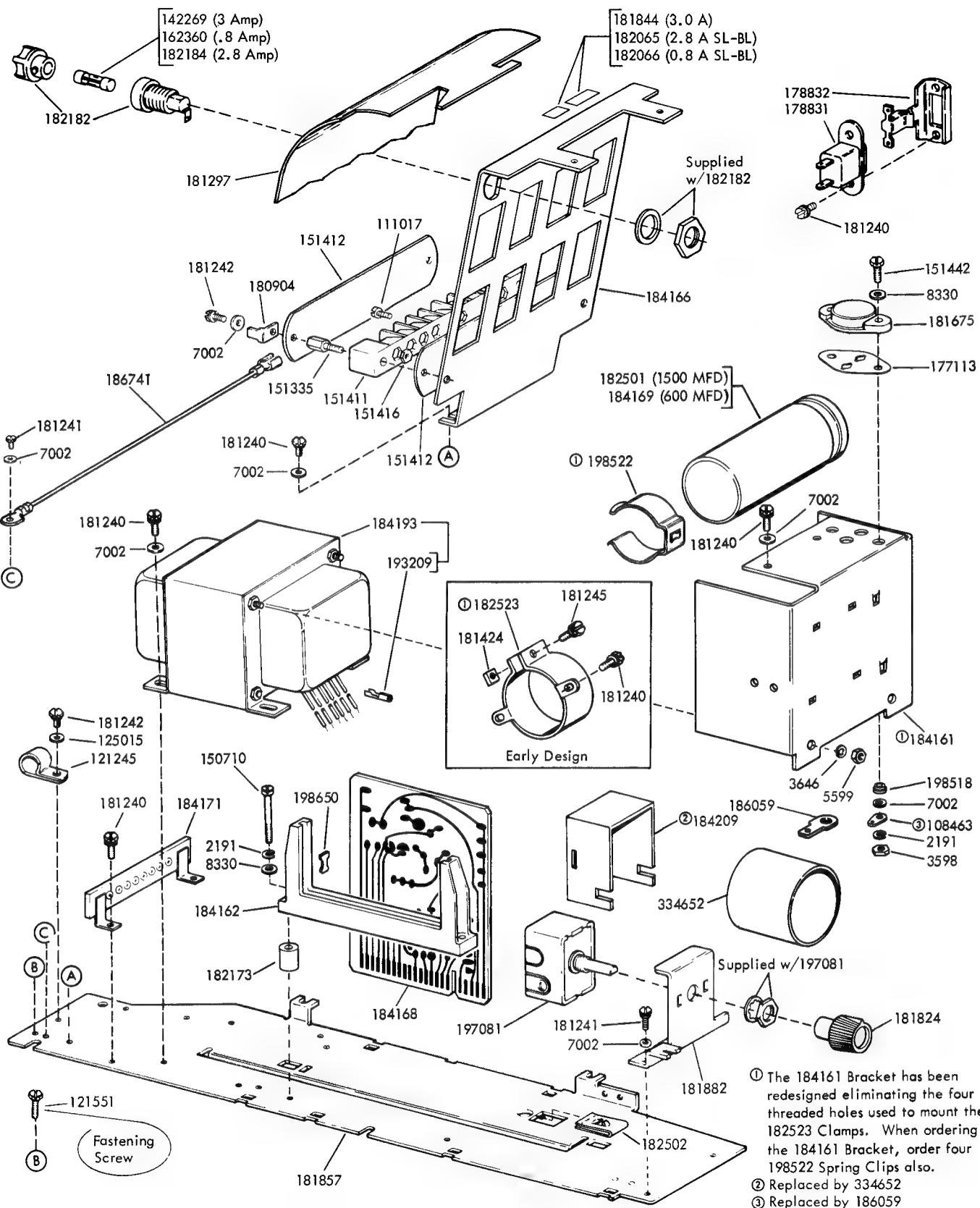
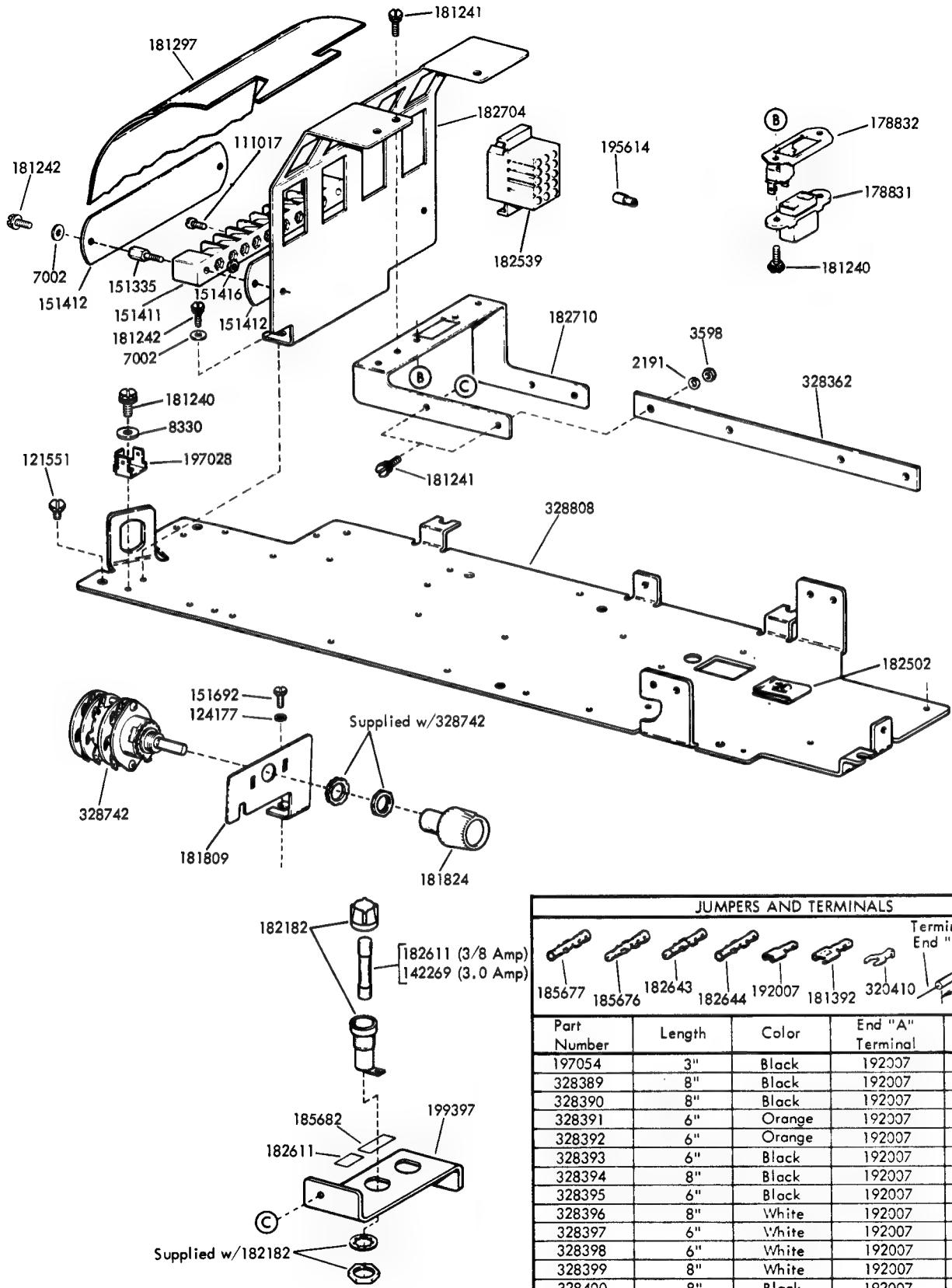


FIGURE 7. ELECTRICAL COMPONENTS FOR COMPUTER CONTROL PRIVATE LINE



JUMPERS AND TERMINALS					
				Terminal End "A"	Terminal End "B"
185677	185676	182643	182644	192007	192007
328389				192007	185676
328390				192007	192007
328391				192007	182643
328392				192007	182644
328393				192007	181392
328394				192007	320410
328395				192007	
328396				192007	320410
328397				192007	
328398				192007	185677
328399				192007	185676
328400				192007	185677

FIGURE 8. BASE PLATE AND ELECTRICAL COMPONENTS FOR USE WITH STATION CONTROLLERS

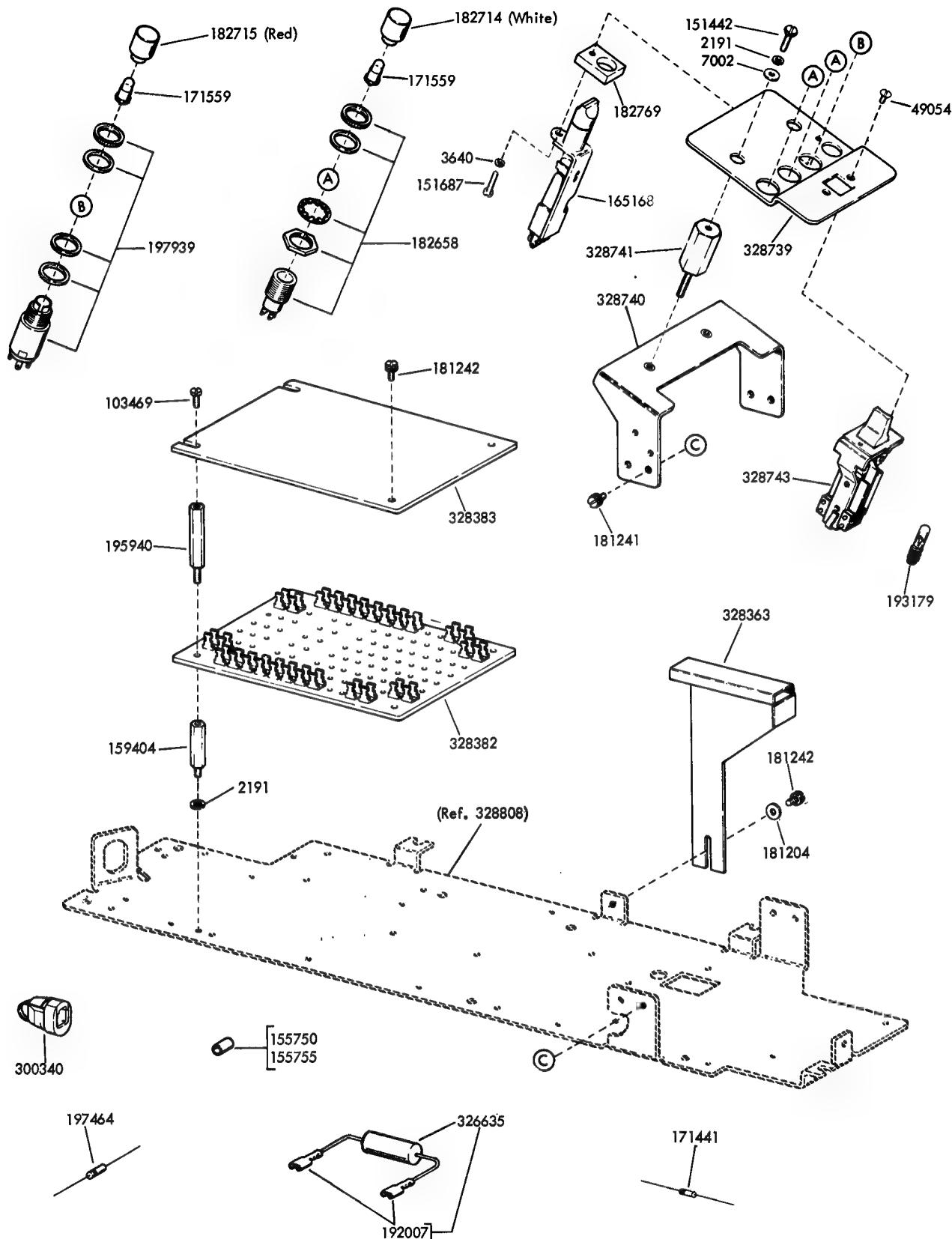


FIGURE 9. BASE PLATE AND ELECTRICAL COMPONENTS FOR
USE WITH STATION CONTROLLER (Continued)

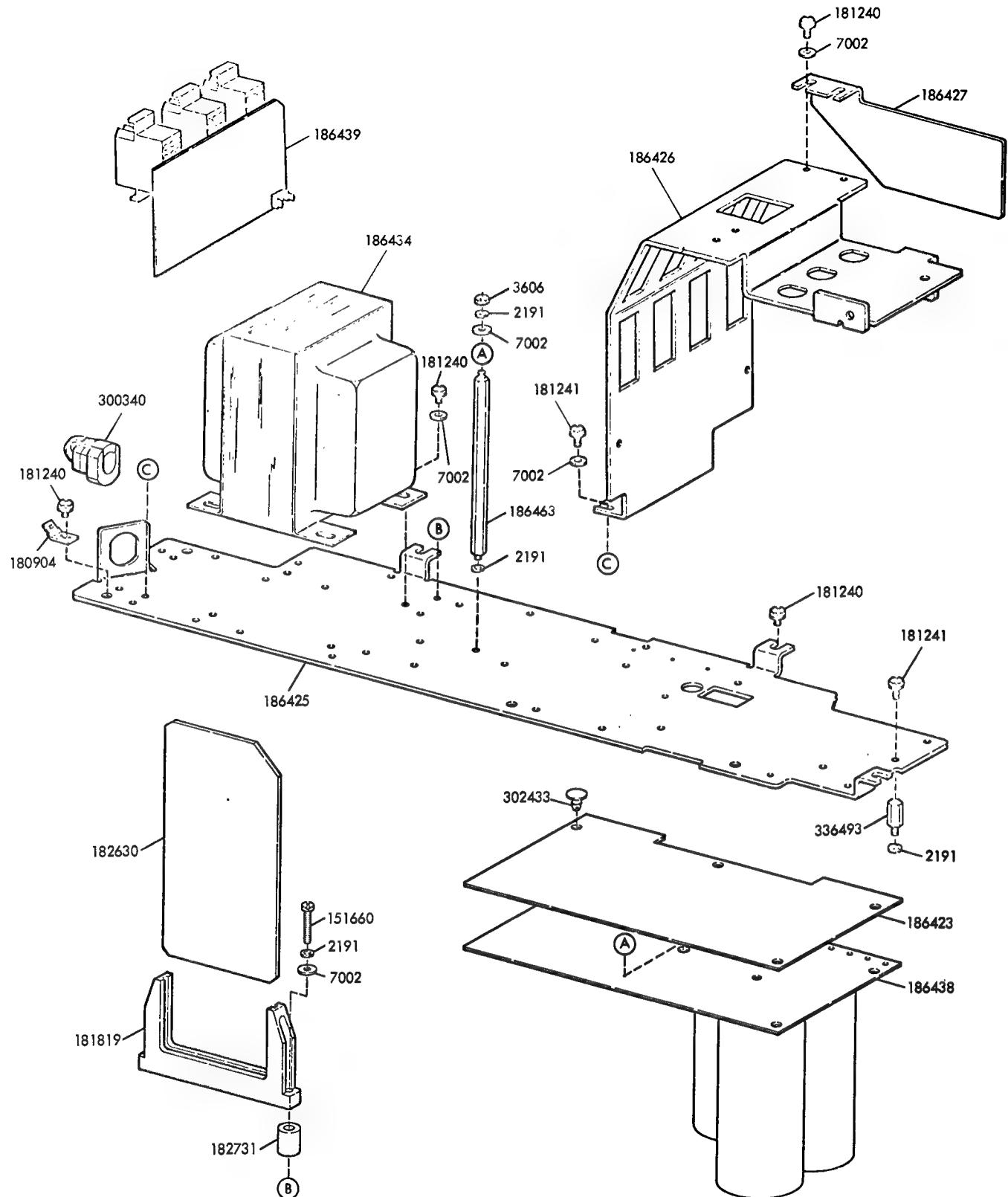


FIGURE 10. BASE PLATE AND ELECTRICAL COMPONENTS

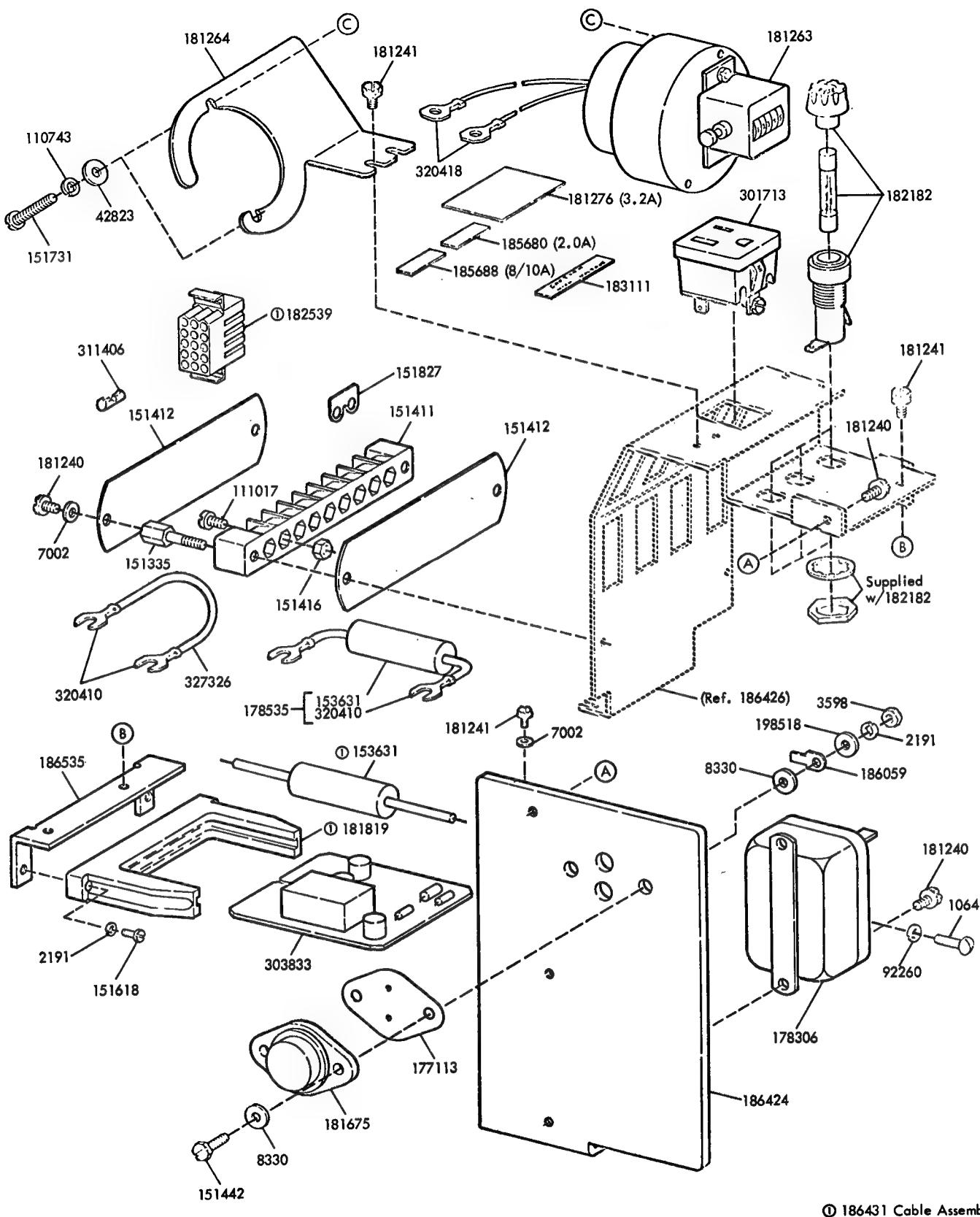
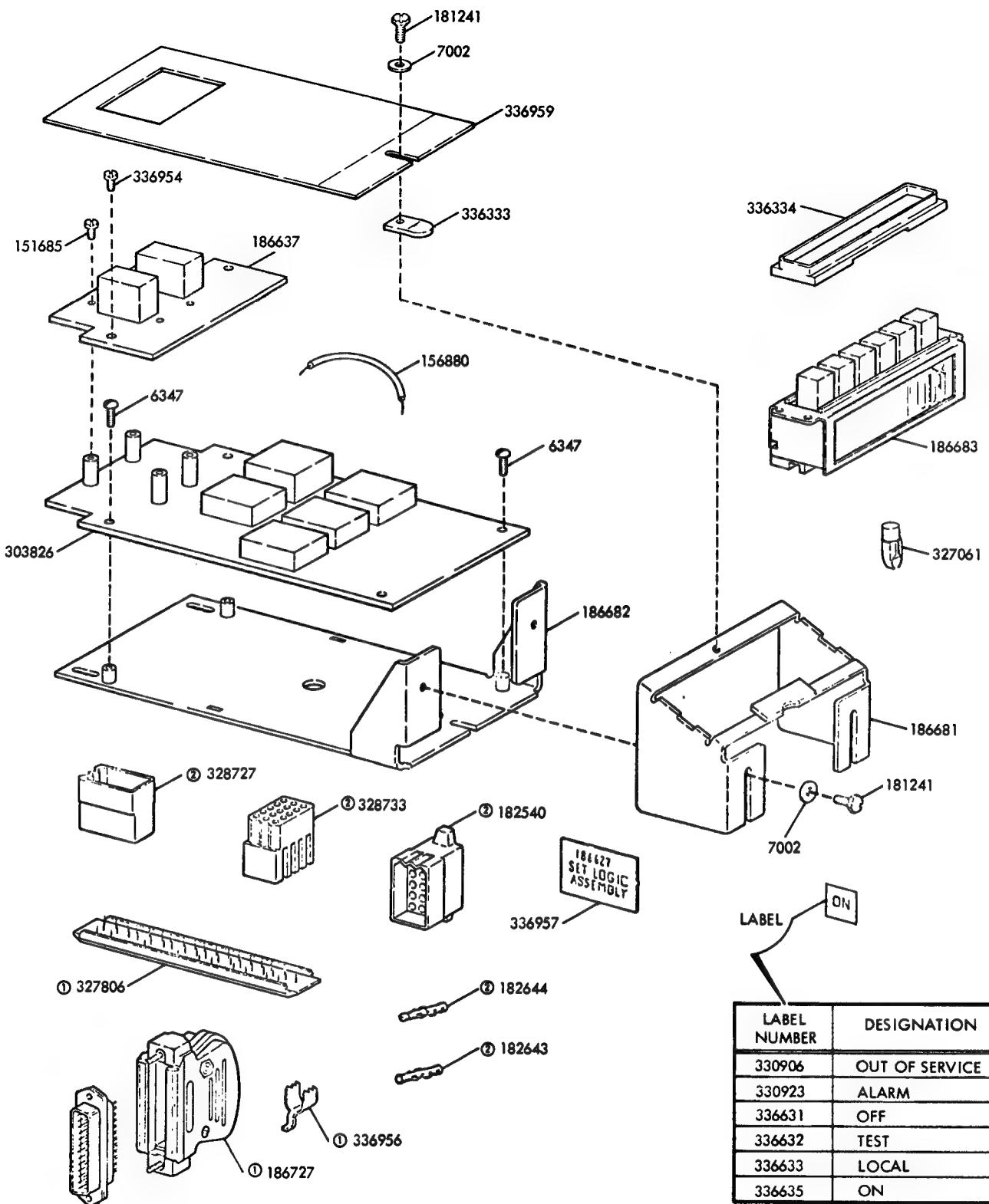
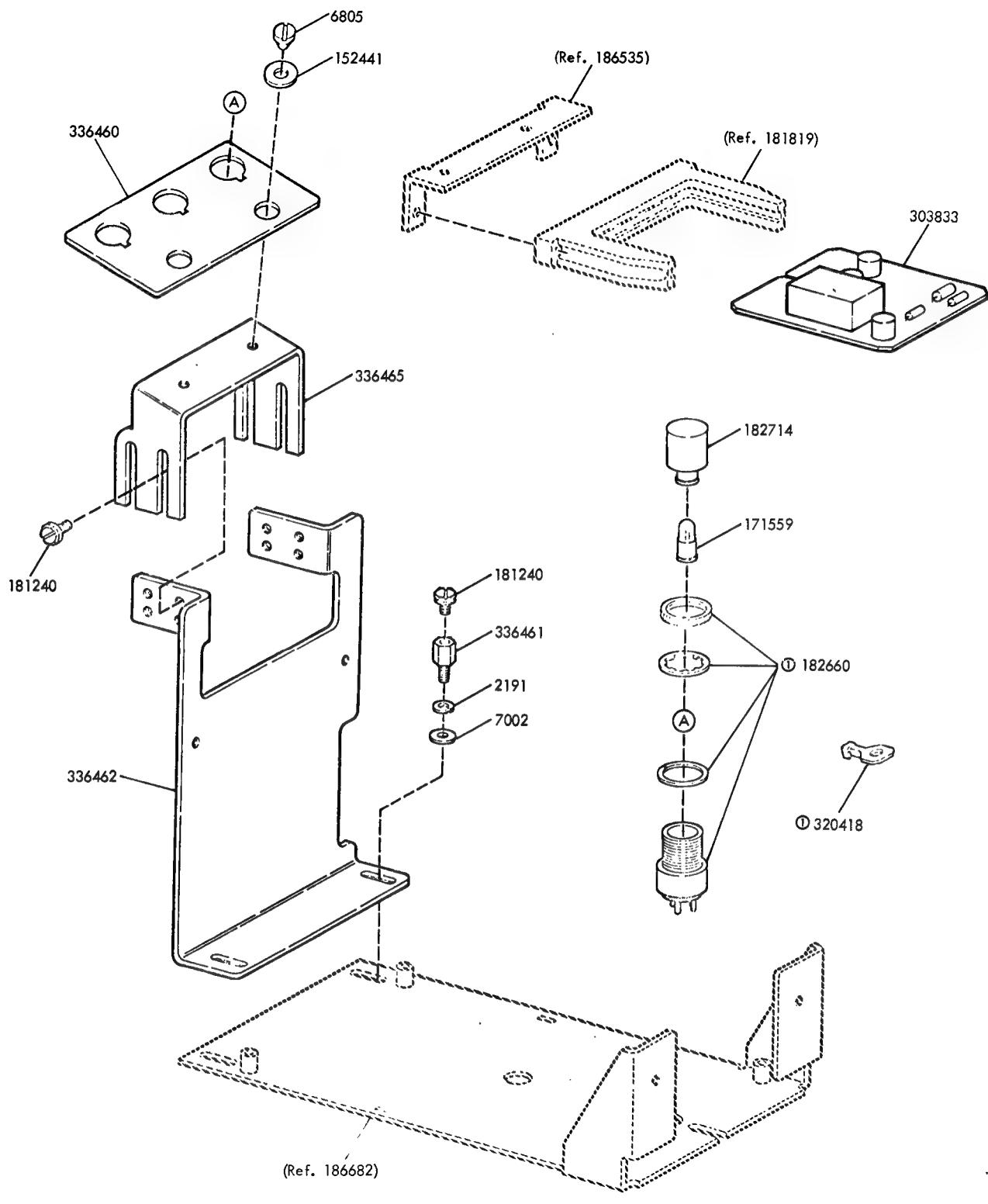


FIGURE 11. BASE PLATE AND ELECTRICAL COMPONENTS (Continued)



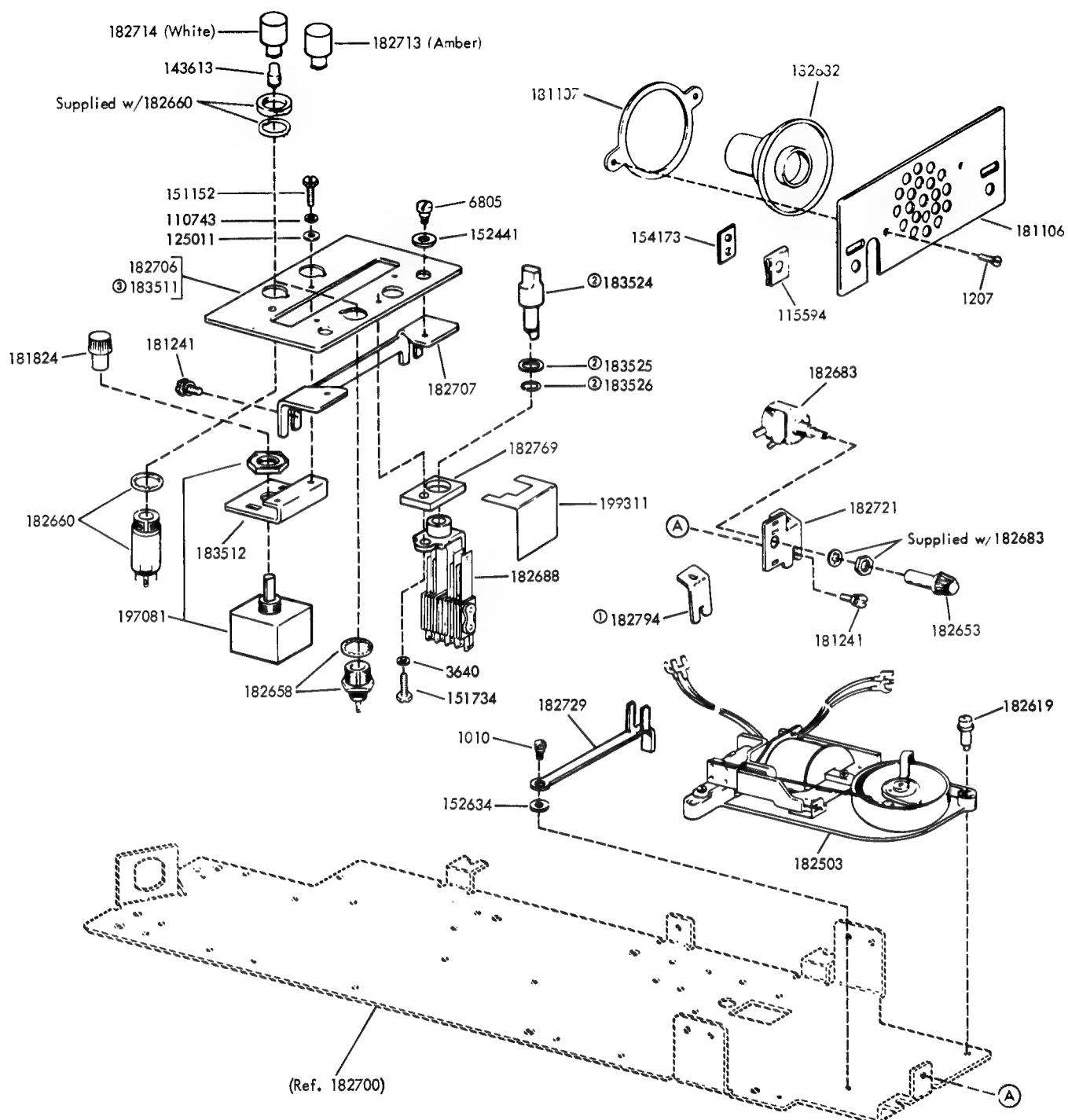
① 336601 Cable Assembly
② 336464 Cable Assembly

FIGURE 12. 186627 SET INTERFACE LOGIC ASSEMBLY



(① 336471 Cable Assembly)

FIGURE 13 186630 MODIFICATION KIT TO PROVIDE BREAK DETECTION AND INDICATION



① No longer available. Replaced by 182721
 ② Part of 182688
 ③ Accepts the 183512 Bracket and Switch

FIGURE 14. ALARMS AND SPEAKER

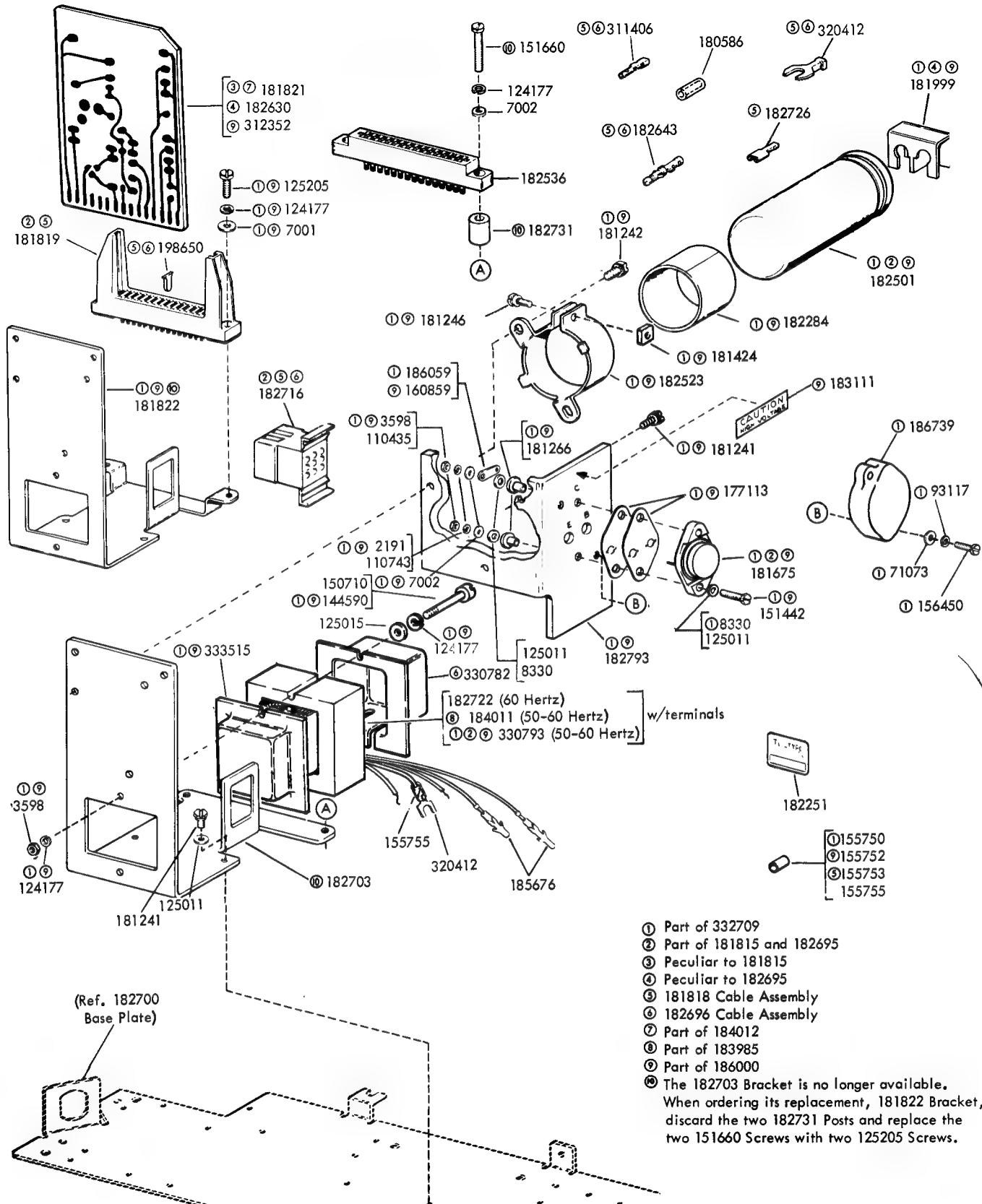
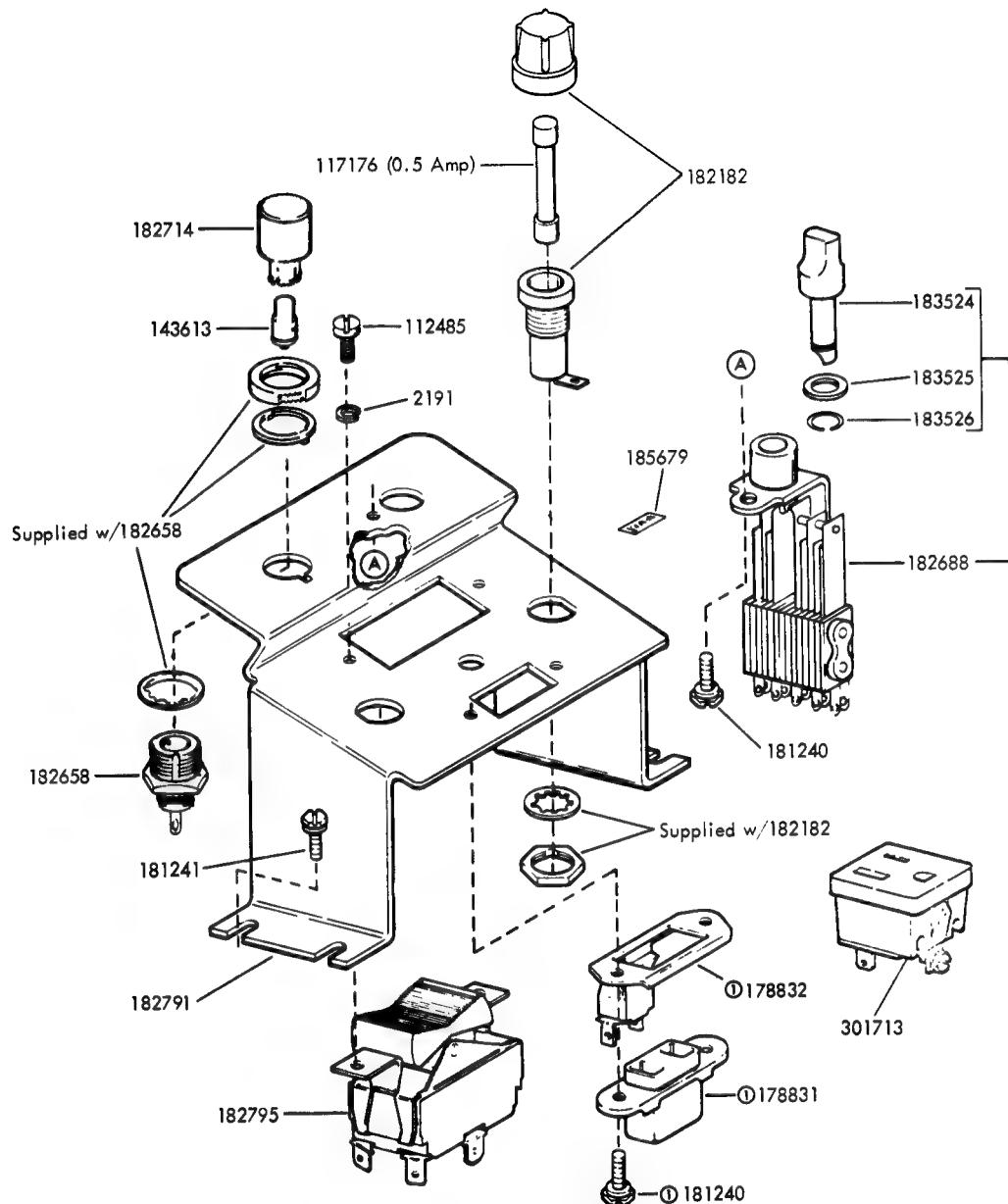
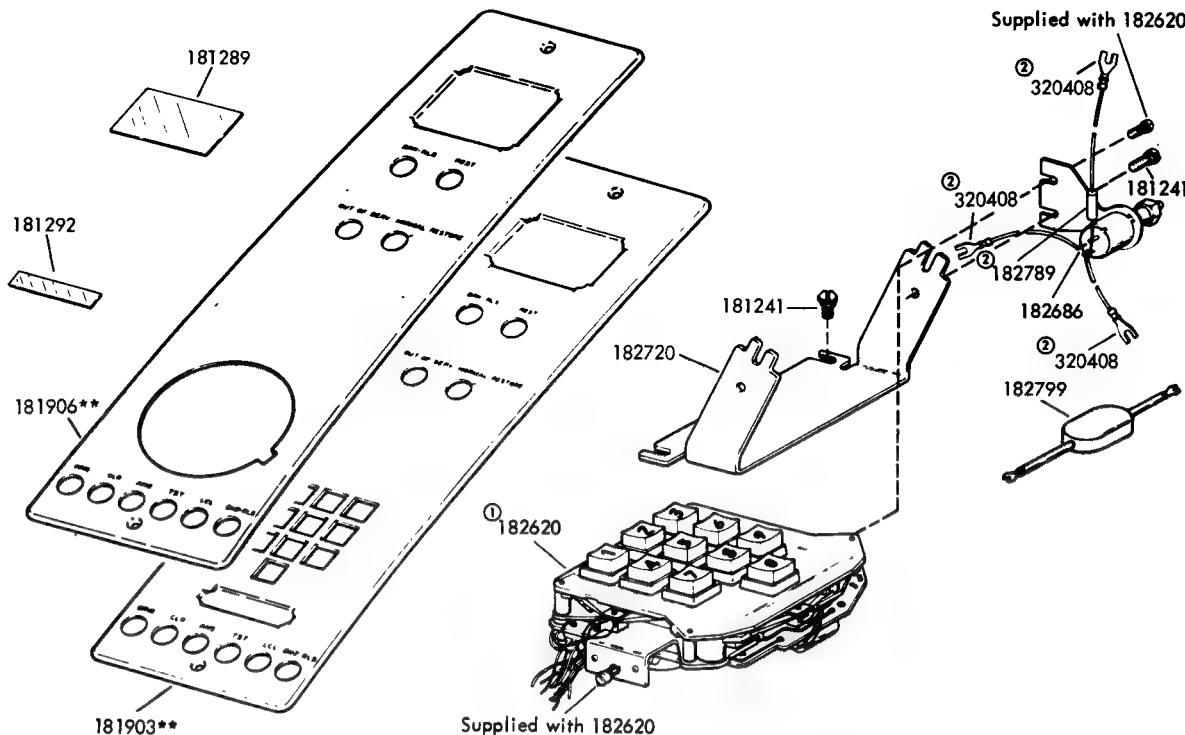


FIGURE 15. 181815, 182695, 183985, 184012, 186000 and 332709
SELECTOR MAGNET DRIVER ASSEMBLIES



① Replaced by 301713

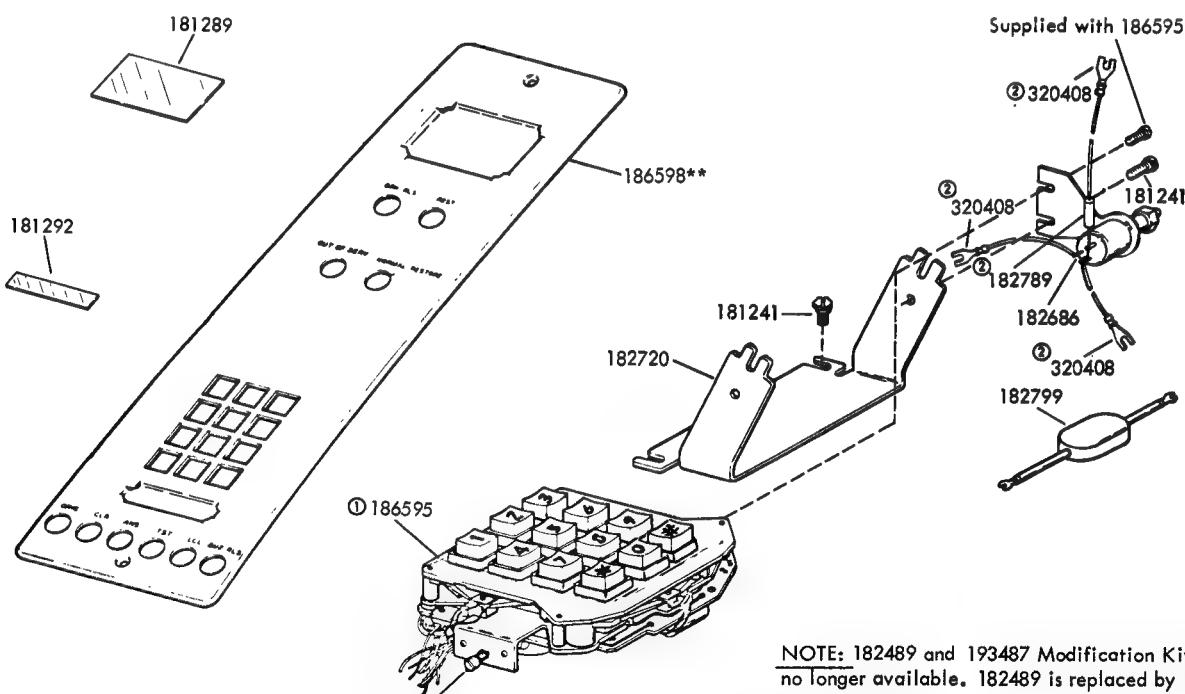
FIGURE 16. RECEIVE-ONLY BRACKET COMPONENTS



Manual 10-button
TOUCH-TONE dial

Part of 182489 (less Dialer) and 193487 (with Dialer)
Modification Kits (Specification 50156S)

① Peculiar to 193487
② Part of 182686
③ Peculiar to 182489



Manual 12-button
TOUCH-TONE dial

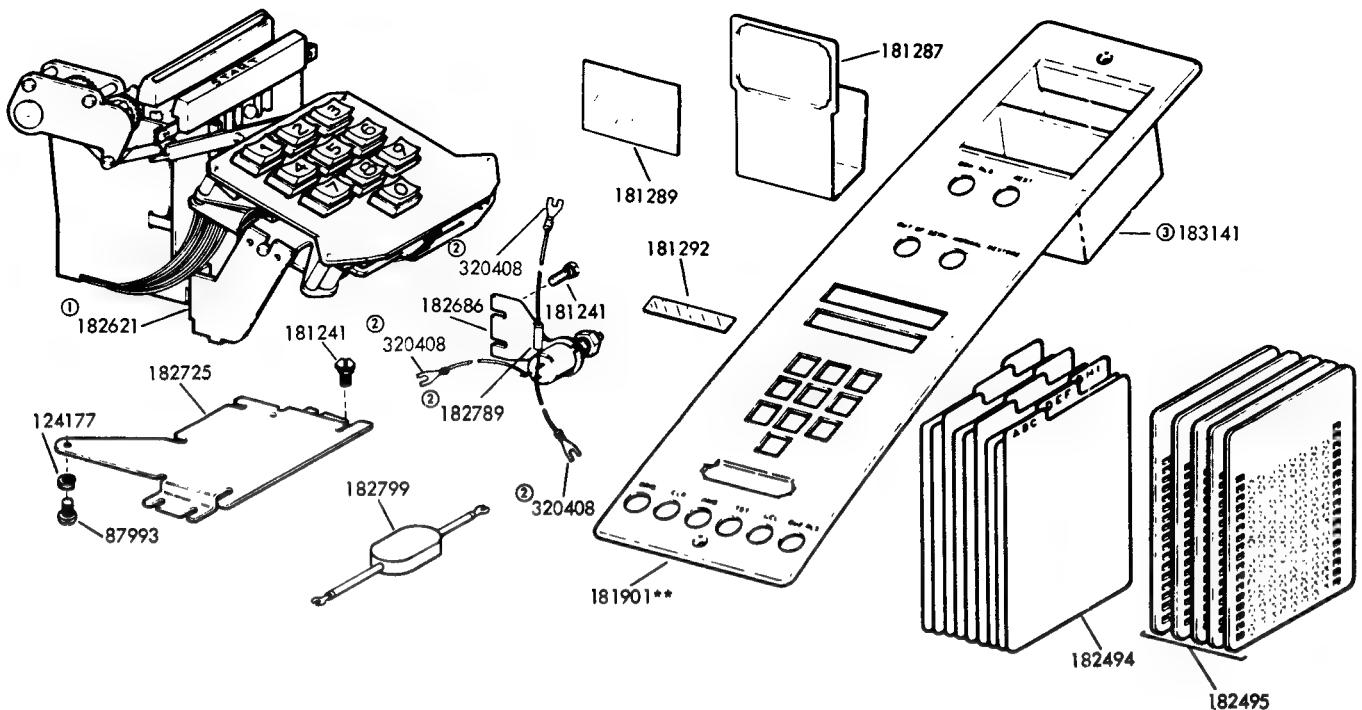
Part of 186600 (less Dialer) and 186601 (with Dialer)
Modification Kits (Specification 50156S)

NOTE: 182489 and 193487 Modification Kits are
no longer available. 182489 is replaced by 186600.
193487 Modification Kit is replaced by 186601.

① Peculiar to 186601
② Part of 182686

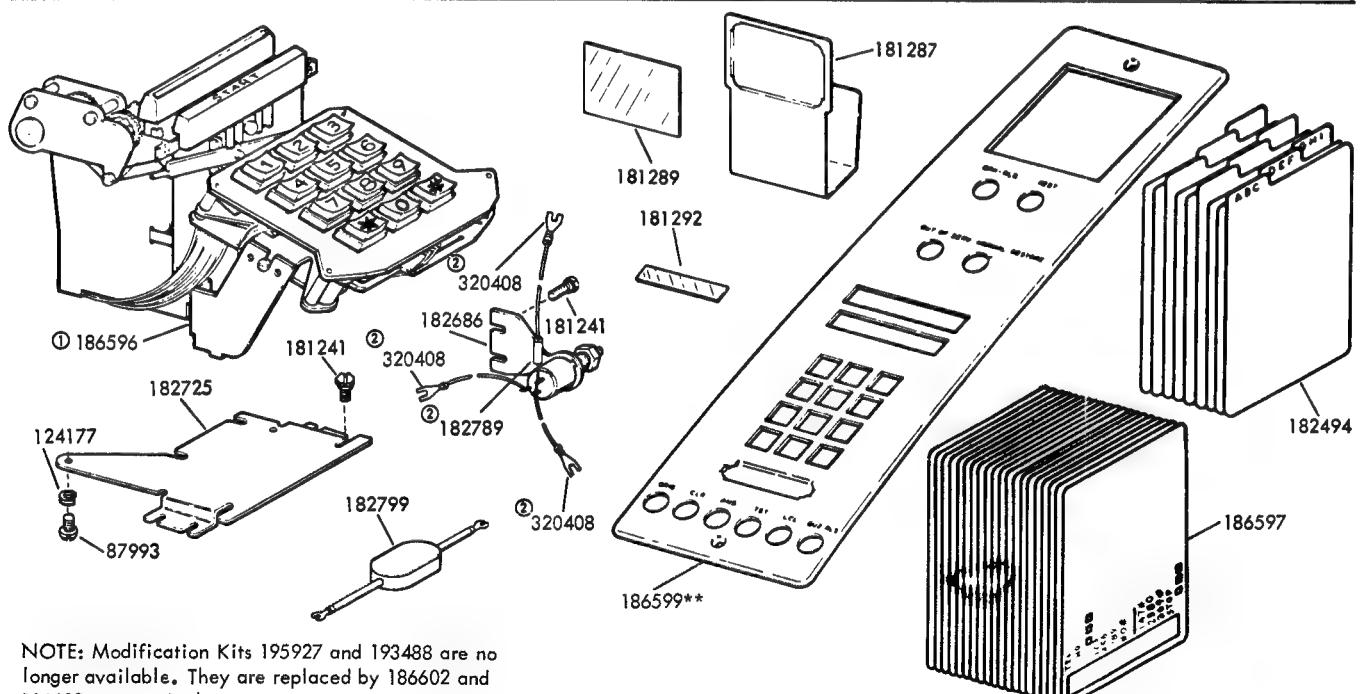
** Refer to page 1 for finish suffix

FIGURE 17. 182489, 193487, 186600 and 186601 DIAL MODIFICATIONS



Manual 10-button
TOUCH-TONE and Card Dial

Part of 195927 (less Dialer) and 193488 (with Dialer)
Modification Kits (Specification 501405)

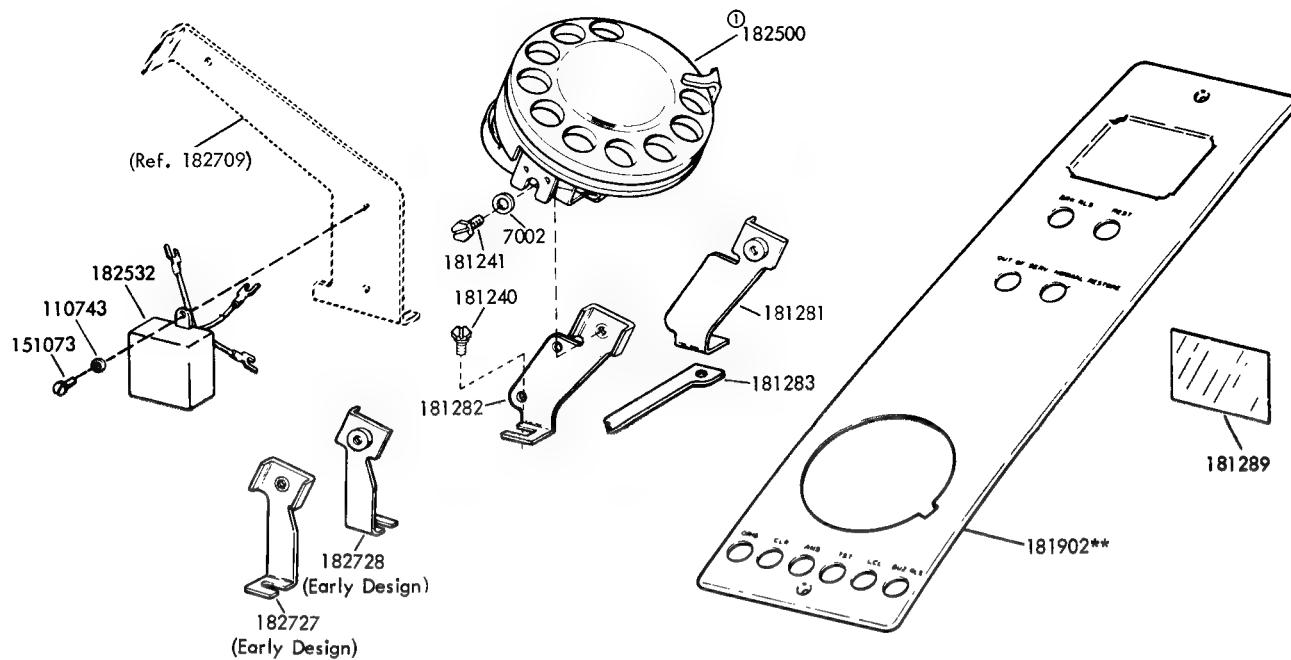


NOTE: Modification Kits 195927 and 193488 are no longer available. They are replaced by 186602 and 186603, respectively.

Manual 12-button
TOUCH-TONE and Card Dial

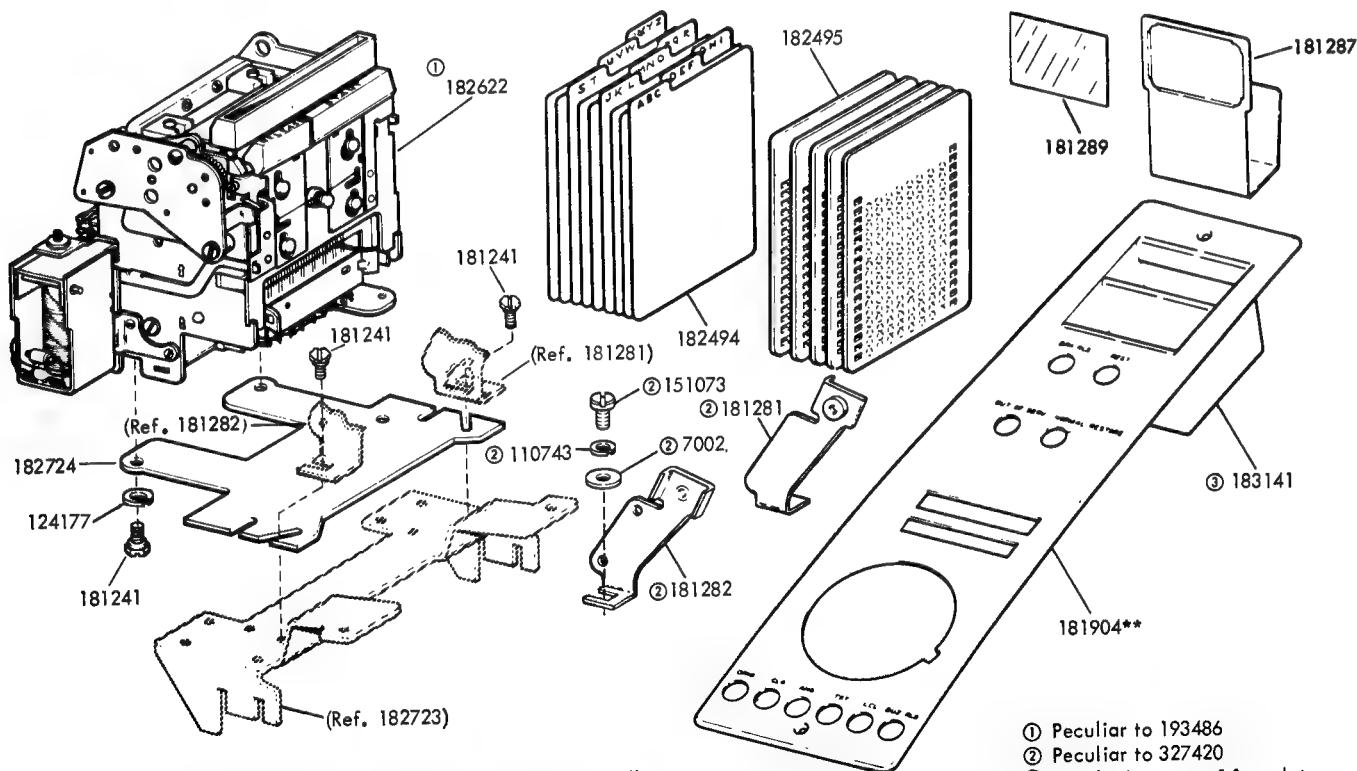
Part of 186602 (less Dialer) and 186603 (with Dialer)
Modification Kits (Specification 501405)

FIGURE 18. 186602, 186603, 193488 and 195927 DIAL MODIFICATIONS (Continued)



Rotary Dial Part of 193489 (with Dialer) and 195926 (less Dialer)
Modification Kits (Specification 50156S)

① Peculiar to 193489



DC Card Dial

Part of 193486 (with Dial) and 195924 (less Dial)
Modification Kits (Specification 50164S) and
327420 (less Dial) Modification Kit (Specification 50156S)

- ① Peculiar to 193486
- ② Peculiar to 327420
- ③ Supplied as part of faceplate or can be ordered separately
- ** Refer to page 1 for finish suffix

FIGURE 19. 193486, 193489, 195924, 195926 and 327420
DIAL MODIFICATIONS (Continued)

KEY ASSEMBLY PART LOCATION TABLE							
POSITION		182581	182582				182589
F	Plunger Switch		182559 182562				182559
E	Plunger Switch		182667 182562	182559 182561			182559 182562
D	Plunger Switch		182667 181638	182559 182562			182559 182562
C	Plunger Switch		182667	182559 182562			182559
B	Plunger Switch		182667 182562	182559 182562			182559
A	Plunger Switch			182559 182562			182559 182562
<hr/>							
Plunger Spring		182554	182554				182554
Lockout			182556				182556
Latch Bar			182666				182666
Latch Spring			182535				182535
Bracket		181637	182557				182557

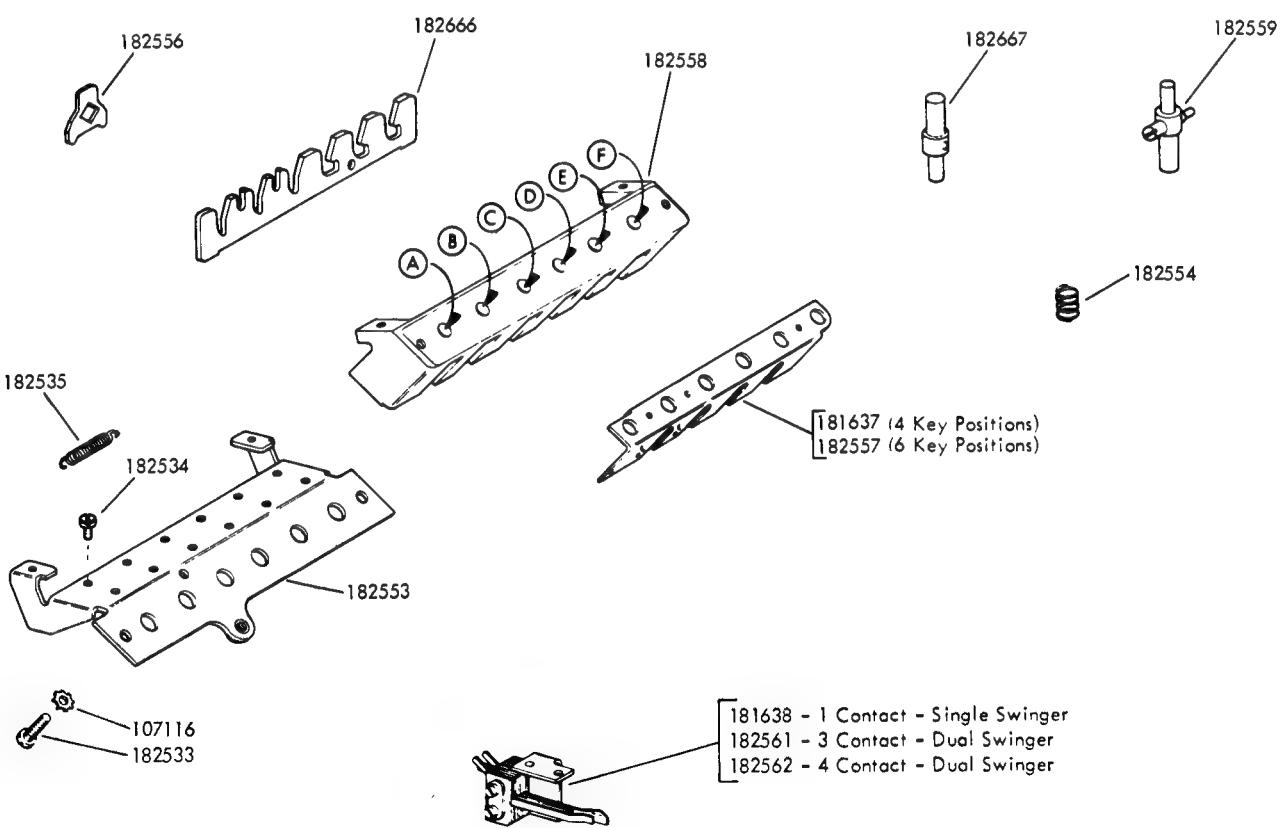


FIGURE 20. KEY ASSEMBLIES

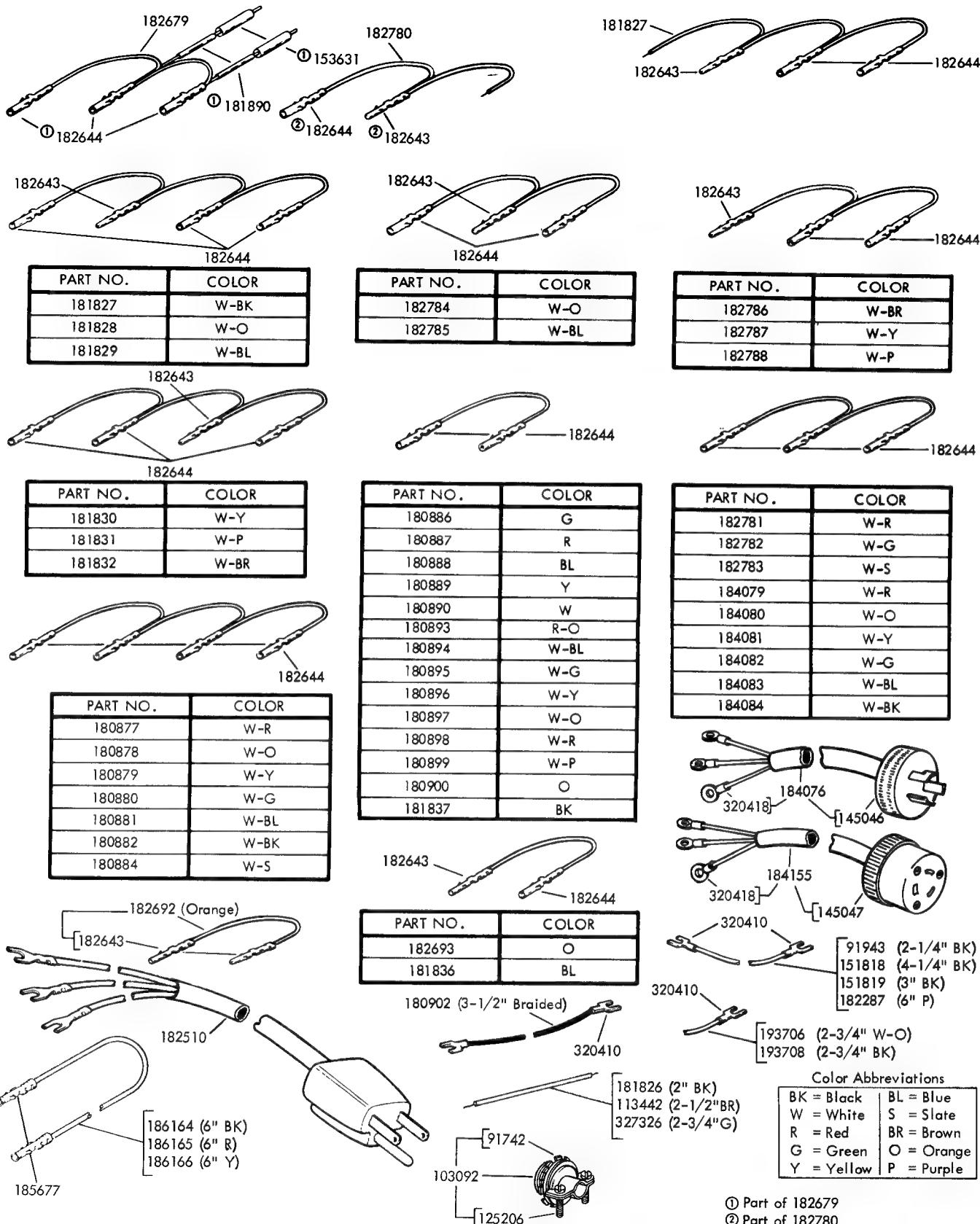


FIGURE 21. POWER CORDS AND JUMPERS

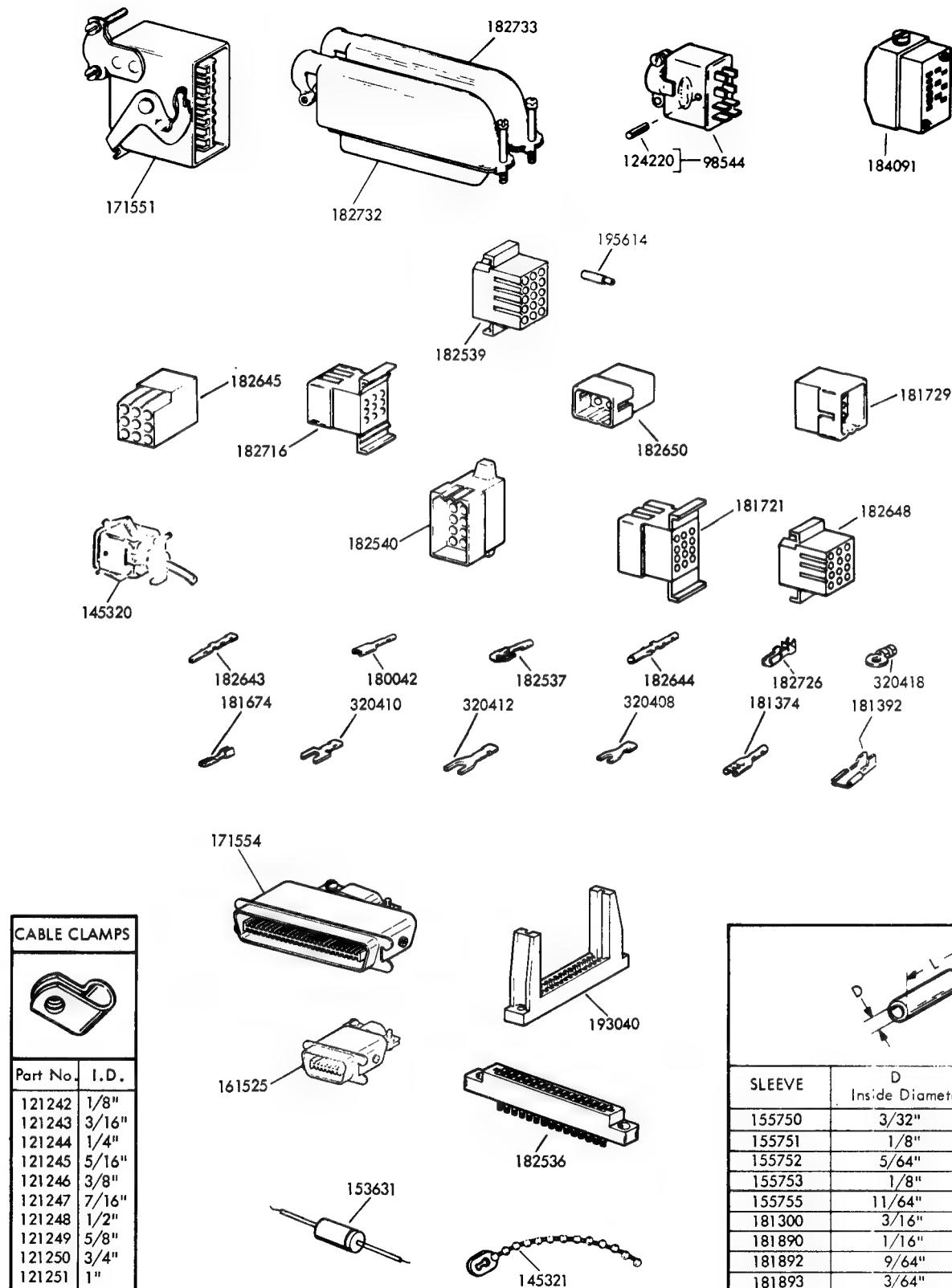
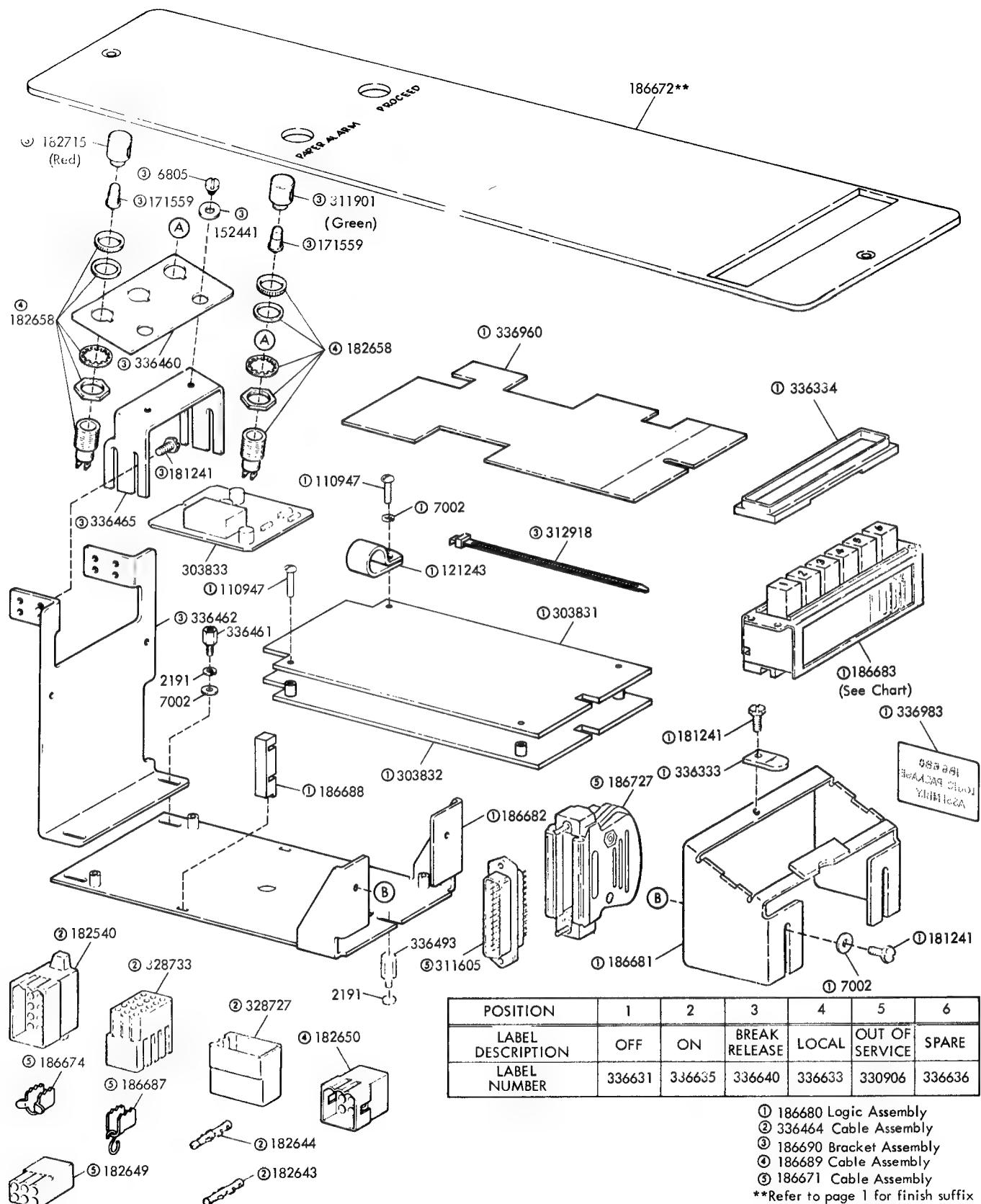


FIGURE 22. CABLE COMPONENTS



POSITION	1	2	3	4	5	6
LABEL DESCRIPTION	OFF	ON	BREAK RELEASE	LOCAL	OUT OF SERVICE	SPARE
LABEL NUMBER	336631	336635	336640	336633	330906	336636

- ① 186680 Logic Assembly
- ② 336464 Cable Assembly
- ③ 186690 Bracket Assembly
- ④ 186689 Cable Assembly
- ⑤ 186671 Cable Assembly

**Refer to page 1 for finish suffix

FIGURE 23. 186670 MODIFICATION KIT TO PROVIDE PRIVATE LINE

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1010	Screw, 6-40 Shoulder 15	113442	Jumper, 2-1/2" Brown 22	151415	Block, Terminal 3
1028	Screw, 4-40 x 1/4 Fil 3	115594	Nut, Speed 15	151416	Nut, 6-40 Hex 3,5,6,7,8, 9,12
1064	Screw, 6-32 x 1/2 Rd 12	117176	Fuse, SL-BL 0.5 Amp 2,6, 7,17	151442	Screw, 6-40 x 1/2 Hex 4,8,10,12,16
1207	Screw, 4-36 x 5/16 Flat 15	120167	Fuse, SL-BL 3.2 Amp 6,7	151618	Screw, 6-40 x 7/16 Fil 12
2191	Lockwasher 2,3,4,5,8,9, 10,11,12,14,16,17,24	121242	Clamp, 1/8 ID Cable 23	151660	Screw, 6-40 x 7/8 Fil 6, 11,16
3598	Nut, 6-40 Hex 4,5,6,8,9, 12,16	121243	Clamp, 3/16 ID Cable 23, 24	151685	Screw, 4-40 x 5/16 Fil 13
3606	Nut, 6-40 Hex 4,11	121244	Clamp, 1/4 ID Cable 23	151687	Screw, 4-40 x 7/16 Fil 10
3640	Lockwasher 10,15	121245	Clamp, 5/16 ID Cable 7,8, 23	151692	Screw, 6-40 x 3/16 Fil 7,9
3646	Lockwasher 8	121246	Clamp, 3/8 ID Cable 23	151693	Screw, 6-40 x 9/16 Fil 4
3649	Washer, Flat 4,6	121247	Clamp, 7/16 ID Cable 7,23	151731	Screw, 4-40 x 7/8 Fil 5, 6,12
5599	Nut, 8-32 Hex 8	121248	Clamp, 1/2 ID Cable 23	151734	Screw, 4-40 x 3/8 Hex 15
6347	Screw, 6-32 x 3/8 Rd 13	121249	Clamp, 5/8 ID Cable 23	151738	Screw, Spl. 7
6805	Screw, 6-40 Shoulder 14, 15,24	121250	Clamp, 3/4 ID Cable 23	151818	Jumper, 4-1/4" Black 22
7001	Washer, Flat 16	121251	Clamp, 1 ID Cable 23	151819	Jumper, 3" Black 22
7002	Washer, Flat 2 to 13, 14,16,20,24	121551	Screw, 8-32 x 1/4 Hex 2, 3,7,8,9	151827	Strap, Terminal 5,12
8330	Washer, Flat 8,9,12,16	124177	Lockwasher, 4,6,7,9,16, 19,20	152441	Washer, Flat 14,15,24
42823	Washer, Flat 5,6,12	124220	Pin, Drive 23	152634	Washer, Flat 15
49054	Screw, 2-56 x 3/16 Flat 10	125011	Washer, Flat 2,3,15,16	152893	Screw, 4-40 x 1/4 Hex 2,3
70072	Lockwasher 4	125015	Washer, Flat 3,4,6,7,8,16	153484	Screw, 6-32 Spl 3
71073	Washer, Flat 16	125205	Screw, 6-40 x 7/16 Fil 16	153631	Network, Spark Suppres- sion 5,12,22,23
75750	Washer, Insulating 3	125206	Screw, 6-32 x 5/8 Fil 22	153799	Screw, 4-40 x 21/64 Hex 3
77362	Resistor, 350 Ohm 3	138538	Fuse, SL-BL 2 Amp 7	154173	Plate 15
77902	Screw, 6-40 x 2-3/8 Rd 3	142269	Fuse, SL-BL 3 Amp 7,8,9	155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 10,16,23
87993	Screw, 6-40 x 5/32 Fil 19	143613	Lamp, 14V Incandescent 2,15,17	155751	Sleeve, 1/8 ID x 1" Lg Insulating 23
90787	Screw, 4-40 x 3/8 Hex 2	144590	Screw, 6-40 x 1-3/8 Fil 4,16	155752	Sleeve, 5/64 ID x 1/2" Lg Insulating 16,23
91742	Locknut 22	145046	Connector, 3 Pt Plug 22	155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 16,23
91943	Jumper, 2-1/4" Black 22	145047	Connector, 3 Pt Recep- tacle 22	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 10,16,23
92260	Lockwasher 12	145320	Connector, 4 Pt Recep- tacle 23	156450	Screw, 2-56 x 1/2 Fil 16
93117	Lockwasher 16	145321	Tie, Cable 23	156880	Jumper, 2-3/8" Black 13
96717	Screw, 4-40 Shoulder 2	150710	Screw, 6-40 x 1-1/4 Fil 8,16	159404	Post 10
98544	Connector, 8Pt Plug 23	150966	Insulator, Terminal 3	159931	Clamp 6,7
98726	Screw, 3-48 x 1/4 Fil 4	150978	Screw, 6-40 x 1-1/8 Fil 4	159932	Keeper 6,7
103092	Connector, Cord 22	150982	Screw, 4-40 x 7/16 Fil 3	160859	Terminal 16
103469	Screw, 4-40 Spl 10	151073	Screw, 4-40 x 5/32 Fil 20	161525	Connector, 14 Pt Plug 23
107116	Lockwasher 21	151152	Screw, 4-40 x 3/16 Hex 15	162360	Fuse, SL-BL .8 Amp 6,8
108463	Terminal 4,8	151335	Stud 3,5,6,7,8,9,12	165168	Key 10
110435	Nut, 4-40 Hex 16	151411	Block, Terminal 5,6,7,8, 9,12	171441	Resistor, 560 Ohm 10
110743	Lockwasher 2,3,5,6,7,12, 15,16,20	151412	Insulator, Terminal 5,6, 7,8,9,12	171536	Resistor, 2,250 Ohm 5
110947	Screw, 6-32 x 13/16 Rd 24			171551	Connector, 16 Pt Plug 23
111017	Screw, 6-40 x 5/16 Fil 3,5,6,7,8,9,12				
111647	Resistor, 1,000 Ohm 3				
112485	Screw, 6-32 x 1/4 Fil 2,17				

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171559	Lamp, 28V Incandescent 10,14,24	181106	Plate, Baffle 15	181810	Relay 7
171593	Fuse, .5 Amp 7	181107	Bracket 15	181814	Capacitor, 250 MFD 7
177113	Insulator 4,8,12,16	181196	Ring, Retaining 7	181815	Driver Assembly, Selector Magnet 1,16
178306	Relay, Power 12	181204	Washer, Flat 10	181816	Resistor, 4,200 Ohm 7
178535	Suppressor, Spark 3,12	181240	Screw w/Lockwasher, 6-40 x 3/16 Hex 2,6,7,8,9,11, 12,14,17,20	181817	Bracket 7
178831	Connector, 2 Pt Receptacle 2,6,7,8,9,17	181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 2 to 13,15,16, 17,18,19,20,24	181818	Cable Assembly 16
178832	Plate, Adapter 2,6,7,8,9, 17	181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 7,8,9,10,16	181819	Connector, 15 Pt Circuit Card 11,12,14,16
178883	Resistor, 1,500 Ohm 5	181243	Screw w/Lockwasher, 6-40 x 3/8 Hex 6	181821	Card, Circuit 16
180042	Terminal, Tab Type 23	181245	Screw w/Lockwasher, 6-40 x 3/8 Hex 8	181822	Bracket 16
180586	Sleeve, 5/32 ID x 21/32" Lg Insulating 16	181246	Screw w/Lockwasher, 6-40 x 5/8 Hex 7,16	181825	Cover, Relay 7
180877	Jumper, 2-3/4" White-Red 22	181263	Timer, Hour 6,12	181826	Jumper, 2" Black 22
180878	Jumper, 2-3/4" White-Orange 22	181264	Bracket 6,12	181827	Jumper, 2-3/4" White-Black 22
180879	Jumper, 2-3/4" White-Yellow 22	181265	Timer w/Terminals 6	181828	Jumper, 2-3/4" White-Orange 22
180880	Jumper, 2-3/4" White-Green 22	181266	Bushing, Insulating 16	181829	Jumper, 2-3/4" White-Blue 22
180881	Jumper, 2-3/4" White-Blue 22	181276	Plate, Name 6,12	181830	Jumper, 2-3/4" White-Yellow 22
180882	Jumper, 2-3/4" White-Black 22	181281	Bracket, Right 20	181831	Jumper, 2-3/4" White-Purple 22
180884	Jumper, 2-3/4 White-Slate 22	181282	Bracket, Left 20	181832	Jumper, 2-3/4" White-Brown 22
180886	Jumper, 2-1/2" Green 22	181283	Spacer, .065" Thk 3,20	181836	Jumper, 4-1/2" Blue 22
180887	Jumper, 2-1/2" Red 22	181287	Holder, Card 19,20	181837	Jumper, 4-1/2" Black 22
180888	Jumper, 2-1/2" Blue 22	181292	Window, Plastic 18,19,20	181840	Plate, Name 7
180889	Jumper, 2-1/2" Yellow 22	181297	Window, Plastic 18,19	181842	Plate, Name 7
180890	Jumper, 2-1/2" White 22	181300	Cover, Insulating 5,6,7,8 9	181844	Plate, Name 7,8
180893	Jumper, 2-1/2" Red-Orange 22	181300	Sleeve, 3/16 ID x 1" Lg Insulating 23	181845	Plate, Name 6,7
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180895	Jumper, 2-1/2" White-Green 22	181392	Terminal, Tab Type 9,23	181879	Transformer, Power 7
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180897	Jumper, 2-1/2" White-Orange 22	181631	Strip Assembly, Lamp 2	181890	Sleeve, 1/16 ID x 1" Lg Insulating 22,23
180898	Jumper, 2-1/2" White-Red 22	181632	Button Assembly 2	181892	Sleeve, 9/64 ID x 1" Lg Insulating 23
180899	Jumper, 2-1/2" White-Purple 22	181637	Bracket 21	181893	Sleeve, 3/64 ID x 1-1/2" Lg Insulating 5,23
180900	Jumper, 2-1/2" Orange 22	181638	Contact Assembly 21	181901**	Faceplate 19
180902	Jumper, 3-1/2" Braided 22	181645	Dial, Rotary 2	181902**	Faceplate 20
		181661	Buzzer, 115V ac 2	181903**	Faceplate 18
		181672	Relay, Power 4	181904**	Faceplate 20
		181674	Terminal, Tab Type 23	181906**	Faceplate 18
		181675	Transistor, Power 4,8,12, 16	181994	Bracket, Guide 7
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		181729	Connector Assembly 23		

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182065	Plate, Identification 7,8	182566	Bracket, Left 2	182696	Cable Assembly 16
182066	Plate, Identification 8	182569	Clamp 5	182700	Plate, Base 3,6,7,15,16
182162	Post 4	182571	Screw, 6-40 Shoulder 2	182703	Bracket 16
182173	Spacer 8	182576	Bracket, Right 2	182704	Bracket 6,7,9
182182	Holder, Fuse 2,6,7,8,9, 12,17	182577	Bracket 2	182706	Plate, Pilot 15
182184	Fuse, 2.8 Amp 7,8	182581	Key Assembly 21	182707	Bracket, Pilot 15
182193	Insulator 3	182582	Key Assembly 21	182708	Bracket, Left 3
182251	Plate, Identification 4,7,16	182611	Fuse, SL-BL 3/8 Amp 5,6, 7,9	182709	Bracket, Right 3,20
182284	Insulator, .015" Thk 7,16	182615	Pad 5	182710	Bracket, Upper 6,7,9
182287	Jumper, 6" Purple 6,22	182619	Screw, 6-40 Shoulder 15	182711	Bracket, Lower 6,7
182489	Modification Kit 1,18	182620	Dial, Touch Tone 18	182713	Cap, Amber Lens 15
182494	Card Set, Index 19,20	182621	Dial, Touch Tone Card 19	182714	Cap, White Lens 2,10,14, 15,17
182495	Card Set, Dialing 19,20	182622	Dial, DC Card 20	182715	Cap, Red Lens 10,24
182500	Dial, Rotary 20	182630	Card, Circuit 11,16	182716	Connector, 9 Pt Plug Type 16,23
182501	Capacitor, 1,500 MFD 4,8, 16	182643	Terminal, Plug Type 5,9, 13,16,22,23,24	182717	Board, Terminal 3
182502	Nut, No. 14 Speed 2,3,7, 8,9	182644	Terminal, Receptacle Type 5,9,13,22,23,24	182718	Buzzer, 10V ac 3
182503	Ringer w/Terminals 15	182645	Connector, 9 Pt Recep- tacle Type 23	182719	Bracket, Guide 6
182510	Cord, Power 22	182648	Connector, 12 Pt Recep- tacle Type 23	182720	Bracket, Dial 18
182520	Rectifier 6,7	182649	Connector, 6 Pt Recep- tacle Type 24	182721	Bracket 15
182523	Clamp, 1-3/8" ID Mounting 7,8,16	182650	Connector, 6 Pt Plug Type 23,24	182722	Transformer w/Terminals 16
182524	Button Assembly 3	182653	Knob 15	182723	Bracket 3,20
182527	Screw, 4-40 Shoulder 2	182657	Transformer, Power 6	182724	Plate, Dial 20
182529	Lamp, 10V 2,3	182658	Socket, Lamp 2,10,15,17, 24	182625	Plate, Tone Dialer 19
182532	Filter 20	182660	Switch, Pushbutton 14,15	182726	Terminal, Receptacle Type 16,23
182533	Screw, 6-32 x 5/16 Rd 21	182661	Holder, Fuse 5	182727	Bracket, Left 20
182534	Screw, 4-40 Spl 21	182666	Bar, Latch 21	182728	Bracket, Right 20
182535	Spring 21	182667	Plunger 21	182729	Link, Ringer 15
182536	Connector, 15 Pt Circuit Card 4,6,16,23	182669	Relay, Power 3	182730	Bracket, Support 3
182537	Terminal, Tab Type 23	182679	Jumper w/Spark Suppres- sion 22	182731	Post 6,11,16
182539	Connector, 15 Pt Recep- tacle Type 5,6,7,9,12,23	182682	Speaker, 2" 15	182732	Connector, 50 Pt Plug 23
182540	Connector, 15 Pt Plug Type 13,23,24	182683	Resistor, 50 Ohm 15	182733	Connector, 50 Pt Recep- tacle 23
182553	Plate, Base 21	182684	Strap 3	182750	Card, Amplifier Circuit 6
182554	Spring, Compression 21	182685	Strap 3	182761	Capacitor, 0.5 MFD 3
182556	Lockout 21	182686	Resistor Assembly 50,000 Ohm 18,19	182768	Bracket, Fuse 7
182557	Bracket 21	182688	Switch, Turn Button 2,15, 17	182769	Block 10,15
182558	Frame 21	182692	Jumper, 2-1/4" Orange 22	182780	Jumper, 2-1/4" White- Black 22
182559	Plunger 21	182693	Jumper, 2-1/4" Orange 22	182781	Jumper, 2-3/4" White-Red 22
182561	Contact Assembly 21			182782	Jumper, 2-3/4" White- Green 22
182562	Contact Assembly 21			182783	Jumper, 2-3/4" White- Slate 22
182563	Plate w/Bracket 2				

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182785	Jumper, 2-1/4" White-Blue 22	185678	Plate, Identification 5,6,7	186682	Bracket 13,14,24
182786	Jumper, 2-1/4" White-Brown 22	185679	Plate, Identification 2,6,7,17	186683	Key Assembly 13,24
182787	Jumper, 2-1/4" White-Yellow 22	185680	Plate, Identification 12	186687	Band w/S Hook 24
182788	Jumper, 2-1/4" White-Purple 22	185682	Plate, Identification 7,9	186688	Block 24
182789	Resistor, 200 Ohm 18,19	185683	Plate, Identification 6,7	186689	Cable Assembly 24
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182793	Plate, Heat Sink 16	186000	Driver Assembly, Selector Magnet 1,16	186727	Clamp 13,24
182794	Bracket 15	186059	Terminal 4,8,12,16	186739	Cover 16
182795	Switch, DP-DT 2,17	186164	Jumper, 6" Black 22	186741	Jumper, 9" Green 6,7,8
182796	Insulator, .032" Thk 6,7	186165	Jumper, 6" Red 22	186768	Bracket, Fuse 6
182799	Capacitor, 20-30 MFD 18,19	186166	Jumper, 6" Yellow 22	192007	Terminal, Tab Type 6,9,10
		186224	Plate 2	193040	Connector w/Guide Slot 23
183111	Label 12,16	186318	Timer w/Terminals 6	193179	Lamp, 28V 10
183141	Holder, Card 19,20	186423	Insulator 11	193209	Connector, Receptacle Type 8
183511	Plate, Pilot 15	186424	Plate 12	193438	Strip, Lamp 3
183512	Bracket, Switch 15	186425	Plate, Base 11	193486	Modification Kit 1,20
183524	Button, Turn 2,15,17	186426	Bracket 11,12	193487	Modification Kit 1,18
183525	Washer, Flat 2,15,17	186427	Bracket 11	193488	Modification Kit 1,19
183526	Ring, Retaining 2,15,17	186431	Cable Assembly 12	193706	Modification Kit 1,20
183985	Driver Assembly, Selector Magnet 1,16	186434	Transformer 11	193708	Jumper, 3" White-Orange 22
		186438	Card, Circuit 11	195614	Jumper, 3" Black 22
184011	Transformer w/Terminals 16	186439	Card, Circuit 11	195618	Pin, Key 5,6,7,9,23
184012	Driver Assembly, Selector Magnet 1,16	186448	Timer Assembly 5	195924	Jumper, 5-1/4" White-Purple 5
		186463	Post 11	195926	Modification Kit 1,20
		186465	Timer Assembly 5	195927	Modification Kit 1,19
184076	Cable Assembly 22	186535	Bracket 12,14	195940	Stud 10
184079	Jumper, White-Red 22	186595	Dial, Touch-Tone 18	197028	Terminal 9
184080	Jumper, White-Orange 22	186596	Dial, Touch-Tone 19	197054	Jumper, 3" Black 9
184081	Jumper, White-Yellow 22	186597	Card Set, Dialing 19	197081	Switch, 3 Positions 7,8,15
184082	Jumper, White-Green 22	186598**	Faceplate 18	197464	Diode 10
184083	Jumper, White-Blue 22	186599**	Faceplate 19	197939	Switch, Pushbutton 10
184084	Jumper, White-Black 22	186600	Modification Kit 1,18	198515	Card, Circuit 4
184091	Connector, 12 Pt Plug 23	186601	Modification Kit 1,18	198517	Bracket 4
184155	Cable Assembly 22	186602	Modification Kit 1,19	198518	Bushing, Insulating 4,8,12
184161	Bracket 8	186603	Modification Kit 1,19	198519	Insulator 4
184162	Connector, 22 Pt Circuit Card 8	186627	Logic Assembly 1,13	198520	Insulator, .062" Thk 4
		186628	Bracket 6,7	198521	Bracket 4
184166	Bracket 8	186630	Modification Kit 1,14	198522	Clip, Spring 4,8
184168	Card, Circuit 8	186637	Card, Circuit 13	198528	Bracket 5
184169	Capacitor, 500-600 MFD 8	186670	Modification Kit 1,24	198529	Strip, Terminal 5
184171	Strip, Terminal 8	186671	Cable Assembly 24	198650	Key, Polarizing 8,16
184193	Transformer 8	186672**	Faceplate 24	199311	Insulator 15
184209	Insulator 8	186674	Stayband 24	199397	Bracket, Fuse 6,7,9
185676	Terminal, Plug Type 9,16	186680	Logic Assembly 24	300340	Bushing 3,10,11

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302433	Button, Stud 11	327420	Modification Kit 1,20	330796	Transformer 4
303826	Card, Circuit 13	327806	Plug 13	330906	Label, Out of Service
303831	Card, Circuit 24	328362	Bar, Mounting 9	330923	Label, Alarm 13
303832	Card, Circuit 24	328363	Bracket, Guide 10	332709	Driver Assembly, Selector
303833	Card, Circuit 12,14,24	328382	Board, Terminal 10		Magnet 1,16
304992	Bushing, Blocking 3	328383	Board, Cover 10	333515	Shield, Transformer 16
305453	Transformer w/Terminals 4	328389	Jumper, 8" Black 9	334652	Insulator, Switch 7,8
305454	Transformer 4	328390	Jumper, 8" Black 9	336333	Plate, Nut 13,24
305688	Card, Circuit 5	328391	Jumper, 6" Orange 9	336334	Collar 13,24
305689	Card, Circuit 5	328392	Jumper, 6" Orange 9	336460	Plate 14,24
311406	Terminal, Receptacle Type 12,16	328393	Jumper, 6" Black 9	336461	Post 14,24
311605	Connector, 25 Pt Plug 13,24	328394	Jumper, 8" Black 9	336462	Bracket 14,24
311901	Cap, Green 24	328395	Jumper, 6" Black 9	336464	Cable Assembly 13,24
312352	Card, Circuit 16	328396	Jumper, 8" White 9	336465	Bracket 14,24
312918	Strap 24	328397	Jumper, 6" White 9	336471	Cable Assembly 14
320408	Terminal, Spade Type 18, 19,23	328398	Jumper, 6" White 9	336493	Post 11,24
320410	Terminal, Spade Type 6,9, 12,22,23	328399	Jumper, 8" White 9	336601	Cable Assembly 13
320412	Terminal, Spade Type 4, 16,23	328400	Jumper, 8" Black 9	336631	Label 13,24
320418	Terminal, Ring Type 12, 14,22,23	328727	Connector, 15Pt Plug Type 13,24	336632	Label 13
320423	Plate 5	328733	Connector, 15Pt Receptacle Type 13,24	336633	Label 13,24
326635	Network, Spark Suppression 10	328739	Plate, Switch 10	336635	Label 13,24
327061	Lamp, 24V 13	328740	Bracket, Mounting 10	336636	Label 24
		328741	Post 10	336640	Label 24
		328742	Switch, Rotary 9	336956	Stayband 13
		328743	Switch, Lever 10	336957	Label 13
		328808	Plate, Base 9,10	336959	Cover 13
		330781	Shield, Transformer 4	336960	Cover 24
		330782	Shield, Transformer 4,16	336983	Label 24

33 TAPE READER (UX)

PARTS

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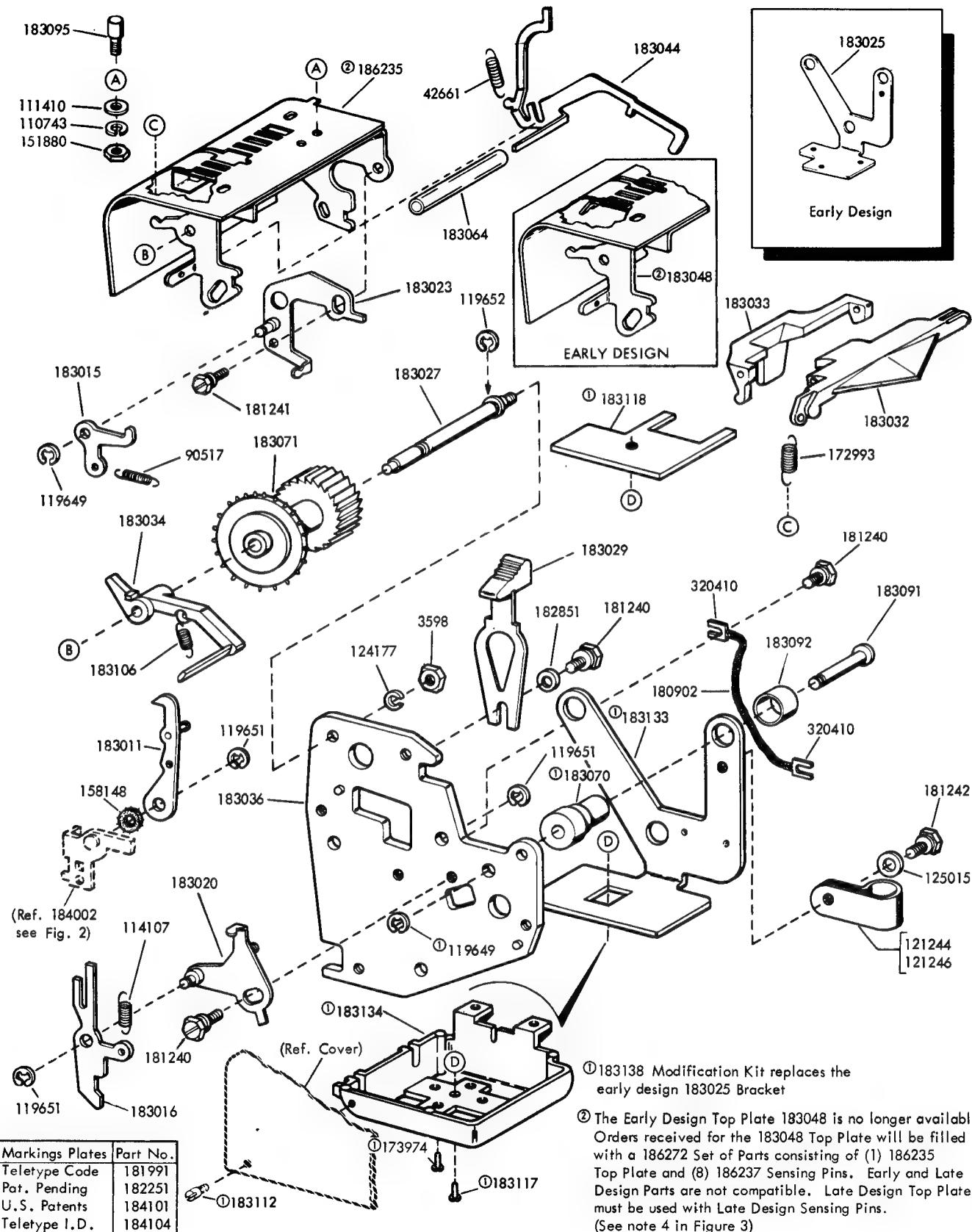


FIGURE 1. READER MECHANISM

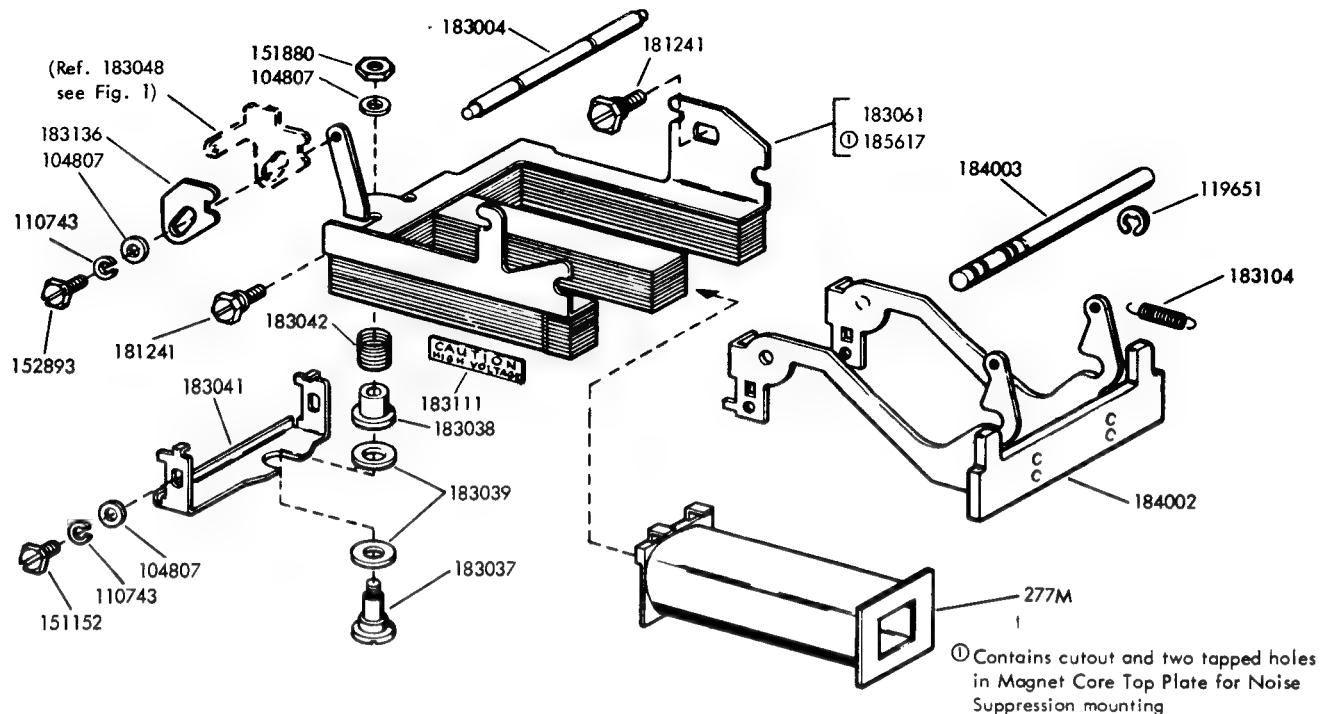


FIGURE 2. TAPE FEED MAGNET

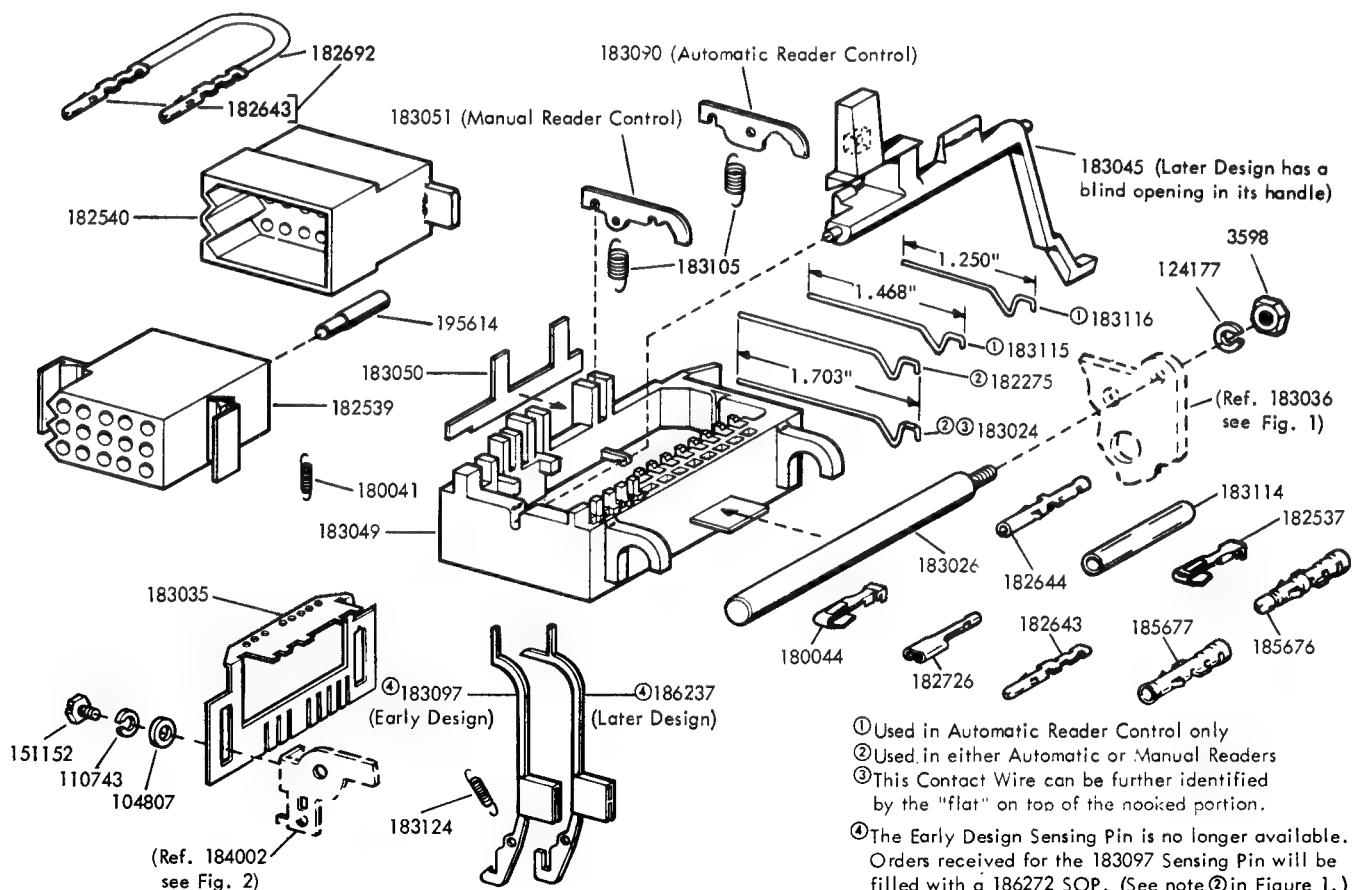


FIGURE 3. CONTACT BLOCK

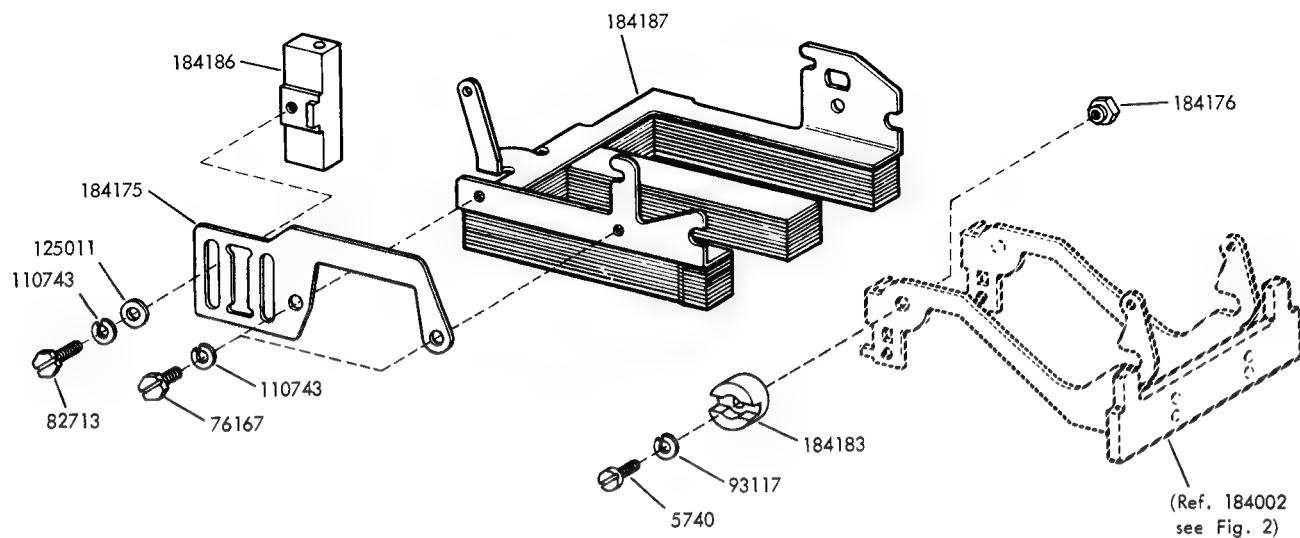


FIGURE 4. REED SWITCH AND MAGNET CORE

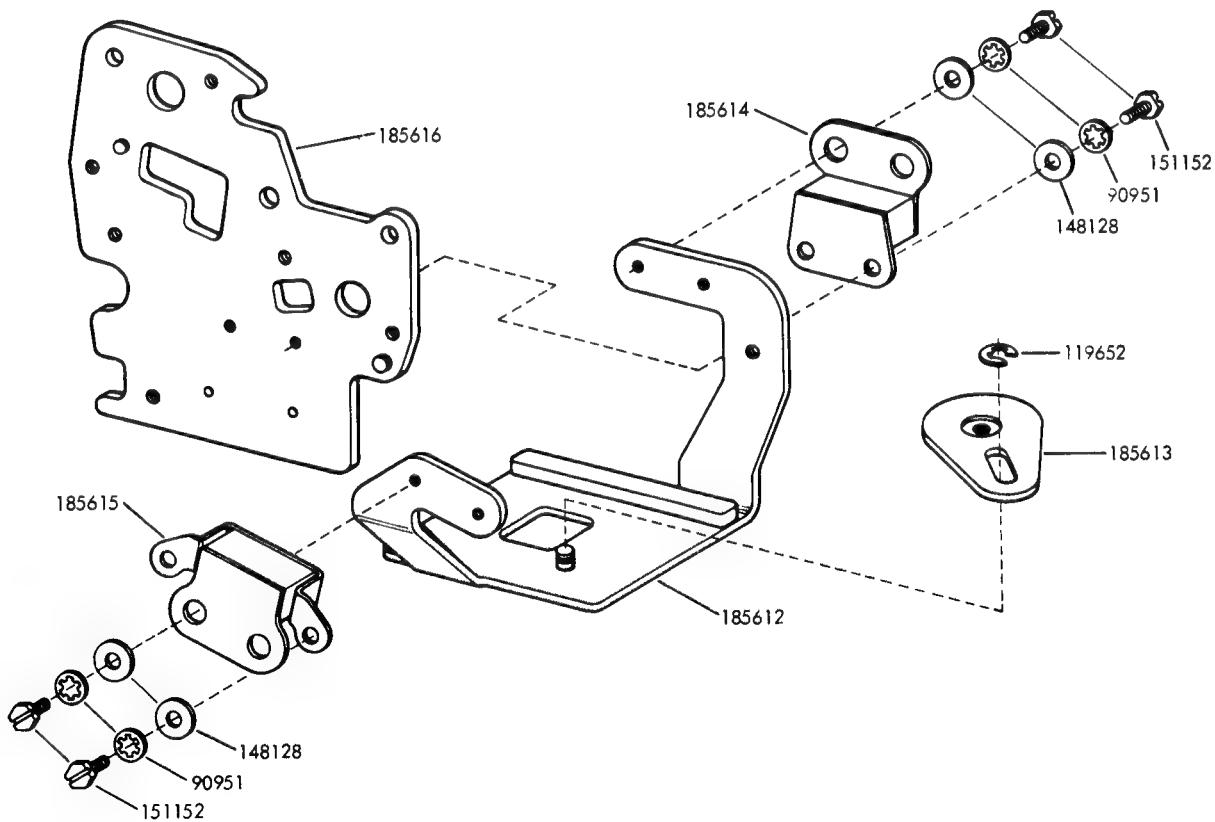


FIGURE 5. VIBRATION MOUNTING

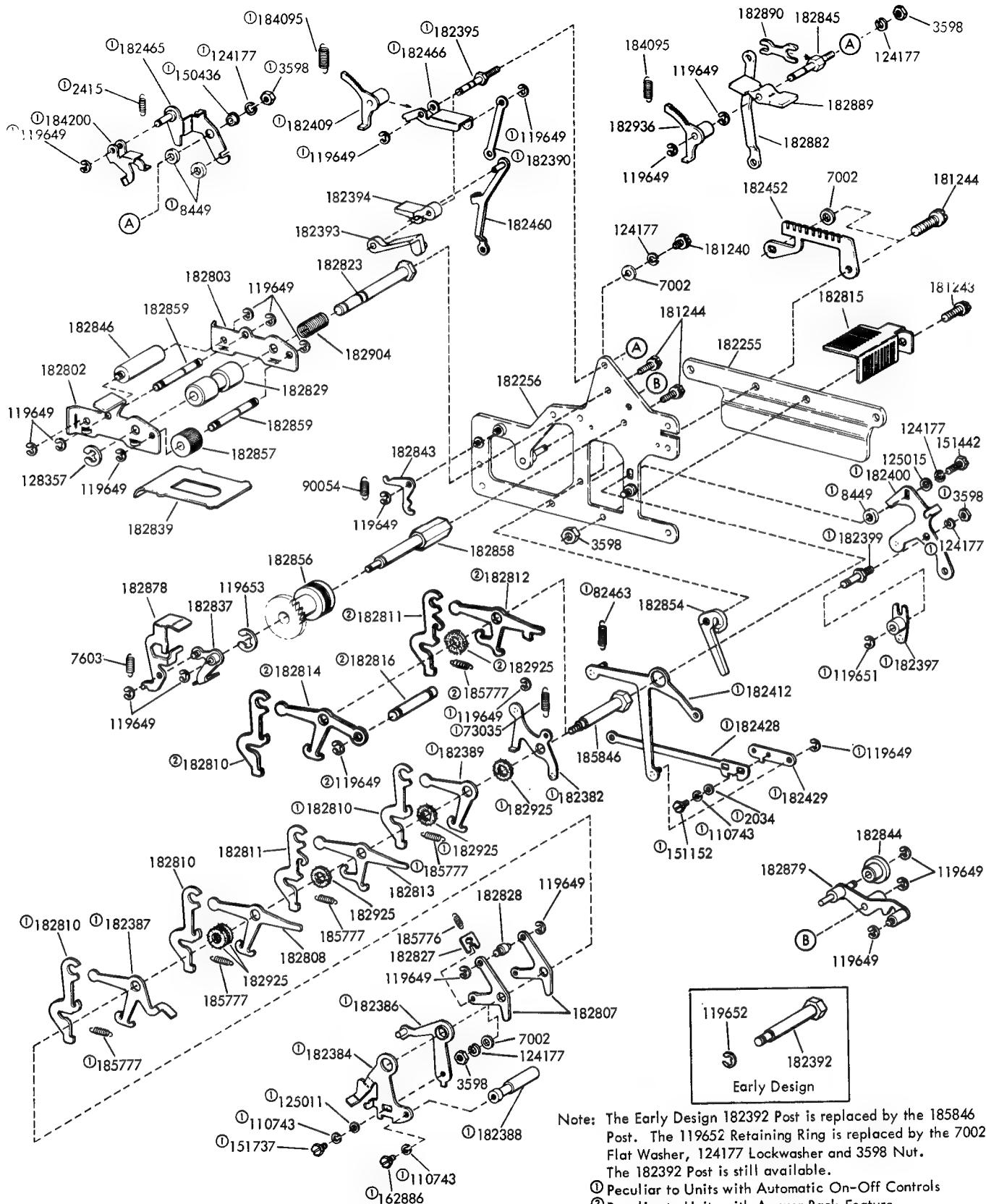
NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
277M	Coil, Magnet 3	182540	Connector, 15 Pt Plug Type 3	183095	Stud, Tape Guide 2
3598	Nut, 6-40 Hex 2,3	182643	Terminal, Plug Type 3	183097	Pin, Sensing 3
5740	Screw, 2-56 x 1/4 Fil 4	182644	Terminal, Receptacle Type 3	183104	Spring 3
42661	Spring 2	182692	Jumper, 2-1/4" Orange 3	183105	Spring 3
76167	Screw, 4-40 x 3/16 Hex 4	182726	Terminal, Receptacle Type 3	183106	Spring 2
82713	Screw, 4-40 x 9/32 Hex 4	182851	Spacer, .062" Thk 2	183111	Label 3
90517	Spring 2	183004	Post, Spring 3	183112	Screw, 4-40 x 9/16 Fil 2
90951	Lockwasher 4	183011	Pawl, Feed 2	183114	Sleeve, Insulating 3
93117	Lockwasher 4	183015	Lever, Detent 2	183115	Wire, Contact 3
104807	Washer, Flat 3	183016	Pawl, Blocking 2	183116	Wire, Contact 3
110743	Lockwasher 2,3,4	183020	Bracket, Blocking Pawl 2	183117	Screw, 10-32 x 5/8 Hex 2
111410	Washer, Flat 2	183023	Bracket, Detent 2	183118	Plate, Clamp 2
114107	Spring 2	183024	Wire, Contact 3	183124	Spring 3
119649	Ring, Retaining 2	183025	Bracket 2	183133	Bracket 2
119651	Ring, Retaining 2,3	183026	Post, Contact Block 3	183134	Base 2
119652	Ring, Retaining 2,4	183027	Shaft, Feed Wheel 2	183136	Plate 3
121244	Clamp, 1/4 ID Cable 2	183029	Latch, Spring 2	183138	Modification Kit 2
121246	Clamp, 3/8 ID Cable 2	183032	Lid, Tape 2	184002	Armature 2,3,4
124177	Lockwasher 2,3	183033	Bail, Tight Tape 2	184003	Shaft, Armature 3
125011	Washer, Flat 4	183034	Lever, Tight Tape 2	184101	Plate, Identification 2
125015	Washer, Flat 2	183035	Guide, Sensing Pin 3	184104	Plate, Identification 2
148128	Washer, Flat 4	183036	Backplate 2,3	184175	Bracket 4
151152	Screw, 4-40 x 3/16 Hex 3,4	183037	Screw, 4-40 Shoulder 3	184176	Nut, 2-56 Shoulder Hex 4
151880	Nut, 4-40 Hex 2,3	183038	Bushing, Upstop 3	184183	Magnet 4
152893	Screw, 4-40 x 1/4 Hex 3	183039	Buffer, Upstop 3	184186	Switch, Reed 4
158148	Washer, Felt 2	183041	Bracket, Upstop 3	184187	Core, Magnet 4
172993	Spring 2	183042	Spring, Compression 3	185612	Bracket 4
173974	Screw, 10-32 x 5/16 Hex 2	183044	Pin, Tape Out 2	185613	Plate, Nut 4
180041	Spring 3	183045	Lever, Start-Stop 3	185614	Mount, Left Vibration 4
180044	Terminal, Tab Type 3	183048	Plate, Top 2,3	185615	Mount, Right Vibration 4
180902	Jumper, 3-1/2" Braided 2	183049	Block, Contact 3	185616	Plate 4
181240	Screw w/Lockwasher, 6-40 x 3/16 Hex 2	183050	Bar, Common 3	185617	Core, Magnet 3
181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 2,3	183051	Lever, Detent 3	185676	Terminal, Plug Type 3
181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 2	183061	Core, Magnet 3	185677	Terminal, Receptacle Type 3
181991	Plate, Identification 2	183064	Insulator, Tape Out Pin 2	186235	Plate, Top 2
182251	Plate, Identification 2	183070	Grommet, Rubber 2	186237	Pin, Sensing 2,3
182275	Wire, Contact 3	183071	Wheel, Feed 2	186272	Set of Parts 2,3
182537	Terminal, Tab Type 3	183090	Lever, Detent 3	195614	Pin, Key 3
182539	Connector, 15 Pt Receptacle Type 3	183091	Post 2	320410	Terminal, Spade Type 2
		183092	Cup 2		

33 TAPE PUNCH (UPE)

PARTS

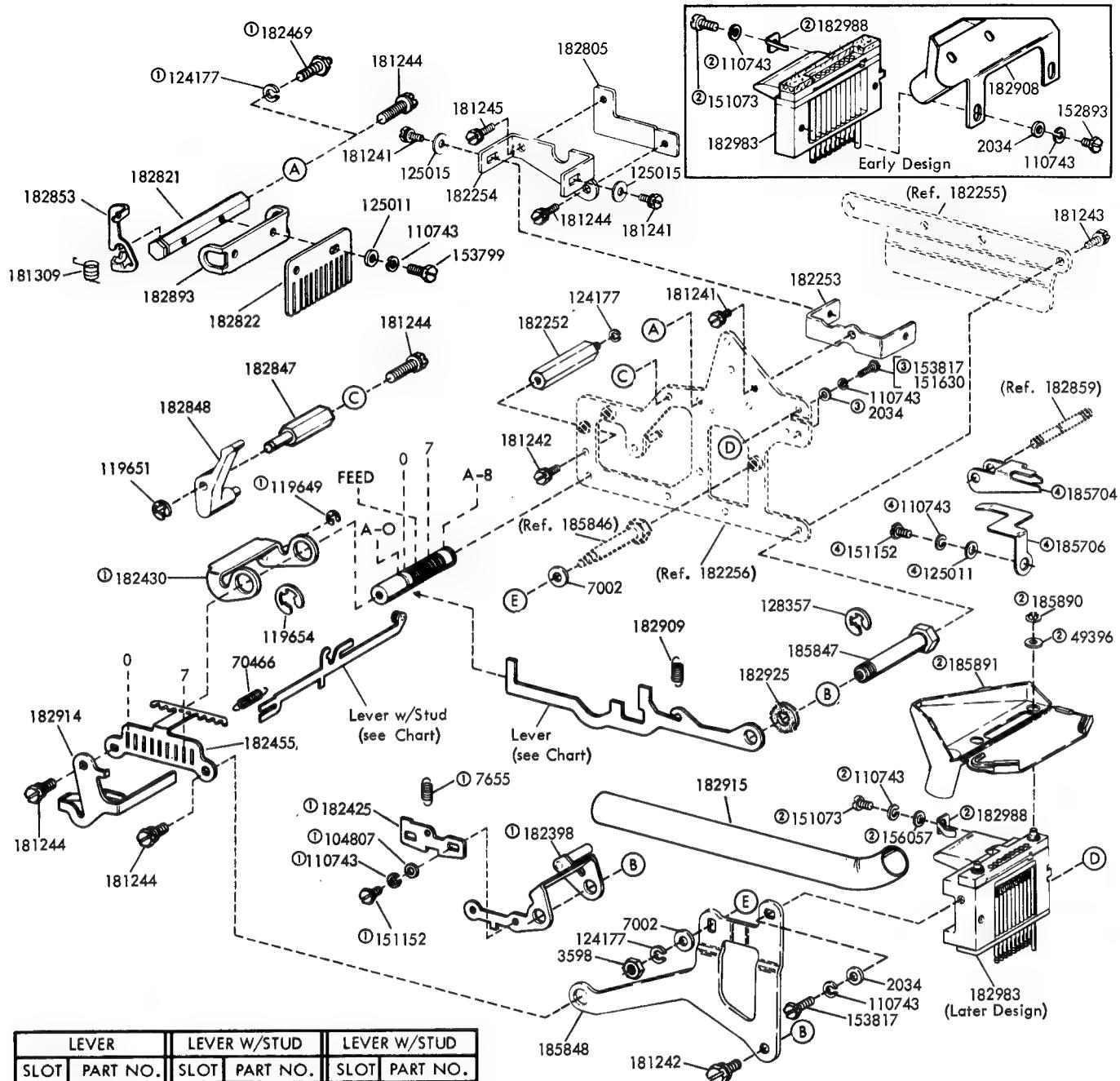
FIGURE	CONTENTS	PAGE
1	Punch Mechanism	2
2	Punch Mechanism (Continued)	3
3	Power Bail Mechanisms	4
	Numerical Index	5



Note: The Early Design 182392 Post is replaced by the 185846 Post. The 119652 Retaining Ring is replaced by the 7002 Flat Washer, 124177 Lockwasher and 3598 Nut. The 182392 Post is still available.

- ① Peculiar to Units with Automatic On-Off Controls
- ② Peculiar to Units with Answer Back Feature

FIGURE 1. PUNCH MECHANISM



LEVER		LEVER W/STUD		LEVER W/STUD	
SLOT	PART NO.	SLOT	PART NO.	SLOT	PART NO.
A-O	①182457	0	182862	1	①182403
0	182431	1-8	182884	2	①182402
1	182432	2-8	182885	3	①182404
2	182433	3	182864	4	①182864
FEED	182872	4-8	182886	5	①182406
3	182434	6	182887	6	①182887
4	182435	5	182861	7	①182861
5	182437	7	182888	8	①182888
6	182438				
7	182439				
A-8	①182457				

NOTE: Early and Later Design Punch Block Assemblies are interchangeable; however, the 182908 Chad Chute can only be used on the Early Design and the 185891 can only be used on the Later Design.

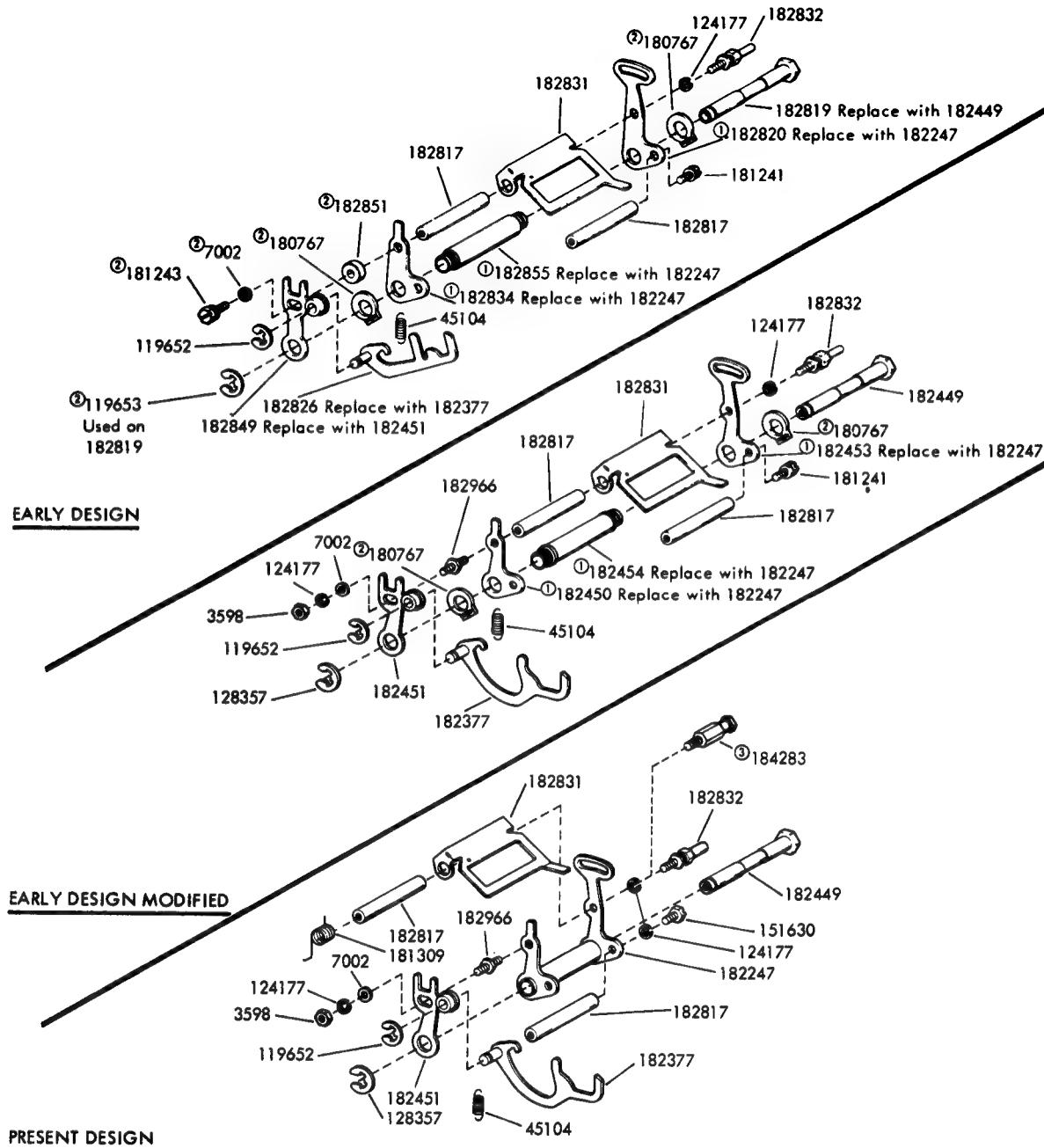
① Peculiar to units with Automatic On-Off Controls

② Supplied with 182983

③ Peculiar to units with Manual On-Off Controls

④185705 Modification Kit to provide a guide for Fan Fold Tape

FIGURE 2. PUNCH MECHANISM (Continued)



- ① Must be replaced with 182247 Sleeve w/Plates, 181309 Spring and 128357 Ring, Retaining (3598, 124177, 7002 and 182966 may also be ordered to update entire Power Bail Mechanism)
- ② Use only with Earlier Design Mechanisms
- ③ Peculiar to units with automatic ON-OFF controls

FIGURE 3. POWER BAIL MECHANISMS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
2034	Washer, Flat 2,3	181244	Screw w/Lockwasher, 6-40 x 7/16 Hex 2,3	182454	Sleeve 4
2415	Spring 2	181245	Screw w/Lockwasher, 6-40 x 1/2 Hex 3	182455	Bracket 3
3598	Nut, 6-40 Hex 2,4	181309	Spring, Torsion 3,4	182457	Lever 3
7002	Washer, Flat 2,3,4	182247	Sleeve w/Plates 4	182460	Link 2
7603	Spring 2	182252	Post 3	182465	Bracket 2
7655	Spring 3	182253	Bracket 3	182466	Lever w/Post 2
8449	Spacer, 0.094" Thk 2	182254	Bracket 3	182469	Post, Spring 3
45104	Spring 4	182255	Spacer 2,3	182802	Bracket 2
49396	Washer, Flat 3	182256	Plate 2,3	182803	Plate 2
70466	Spring 3	182377	Pawl w/Stud 4	182805	Plate 3
73035	Spring 2	182382	Lever 2	182807	Lever 2
82463	Spring 2	182384	Lever 2	182808	Lever 2
90054	Spring 2	182386	Lever 2	182810	Pawl 2
104807	Washer, Flat 3	182387	Lever 2	182811	Pawl 2
110743	Lockwasher 2,3	182388	Post 2	182812	Lever 2
119649	Ring, Retaining 2,3	182389	Lever 2	182813	Lever 2
119651	Ring, Retaining 2,3	182390	Link 2	182814	Lever 2
119652	Ring, Retaining 2,4	182392	Post 2	182815	Bracket 2
119653	Ring, Retaining 2,4	182393	Lever 2	182816	Shaft 2
119654	Ring, Retaining 3	182394	Lever 2	182817	Post 4
124177	Lockwasher 2,3,4	182395	Post 2	182819	Post 4
125011	Washer, Flat 2,3	182397	Lever 2	182820	Plate 4
125015	Washer, Flat 2,3	182398	Bail w/Post 3	182821	Post 3
128357	Ring, Retaining 2,3,4	182399	Post, Eccentric 2	182822	Plate 3
150436	Bushing 2	182400	Plate w/Stud 2	182823	Post 2
151073	Screw, 4-40 x 5/32 Fil 3	182402	Lever w/Stud 3	182826	Pawl w/Stud 4
151152	Screw, 4-40 x 3/16 Hex 2,3	182403	Lever w/Stud 3	182827	Plate 2
151442	Screw, 6-40 x 1/2 Hex 2	182404	Lever w/Stud 3	182828	Roller 2
151630	Screw, 6-40 x 1/4 Hex 3,4	182406	Lever w/Stud 3	182829	Sleeve 2
151737	Screw, 4-40 x 11/64 Hex 2	182409	Arm w/Hub 2	182831	Bail 4
152893	Screw, 4-40 x 1/4 Hex 3	182412	Lever w/Stud 2	182832	Post 4
153817	Screw, 4-40 x 3/8 Hex 3	182425	Arm 3	182834	Plate 4
153799	Screw, 4-40 x 21/64 Hex 3	182428	Link 2	182837	Lever w/Post 2
156057	Washer, Flat 3	182429	Plate 2	182839	Plate 2
162886	Screw, 4-40 x 7/32 Hex 2	182430	Bail w/Stud 3	182843	Lever 2
180767	Ring, Retaining 4	182431	Lever 3	182844	Roller 2
181240	Screw w/Lockwasher, 6-40 x 3/16 Hex 2	182432	Lever 3	182845	Post 2
181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 3,4	182433	Lever 3	182846	Roller 2
181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 3	182434	Lever 3	182847	Post 3
181243	Screw w/Lockwasher, 6-40 x 3/8 Hex 2,3,4	182435	Lever 3	182848	Arm 3
		182437	Lever 3	182849	Plate w/Bushing 4
		182438	Lever 3	182851	Spacer, 0.062" Thk 4
		182439	Lever 3	182853	Hook 3
		182449	Post 4	182854	Bracket 2
		182450	Plate 4	182855	Sleeve 4
		182451	Plate w/Bushing 4	182856	Wheel, 24T 2
		182452	Guideplate 2	182857	Roller 2
		182453	Plate 4	182858	Post 2
				182859	Post 2,3
				182861	Lever w/Stud 3

NUMERICAL INDEX (Continued)

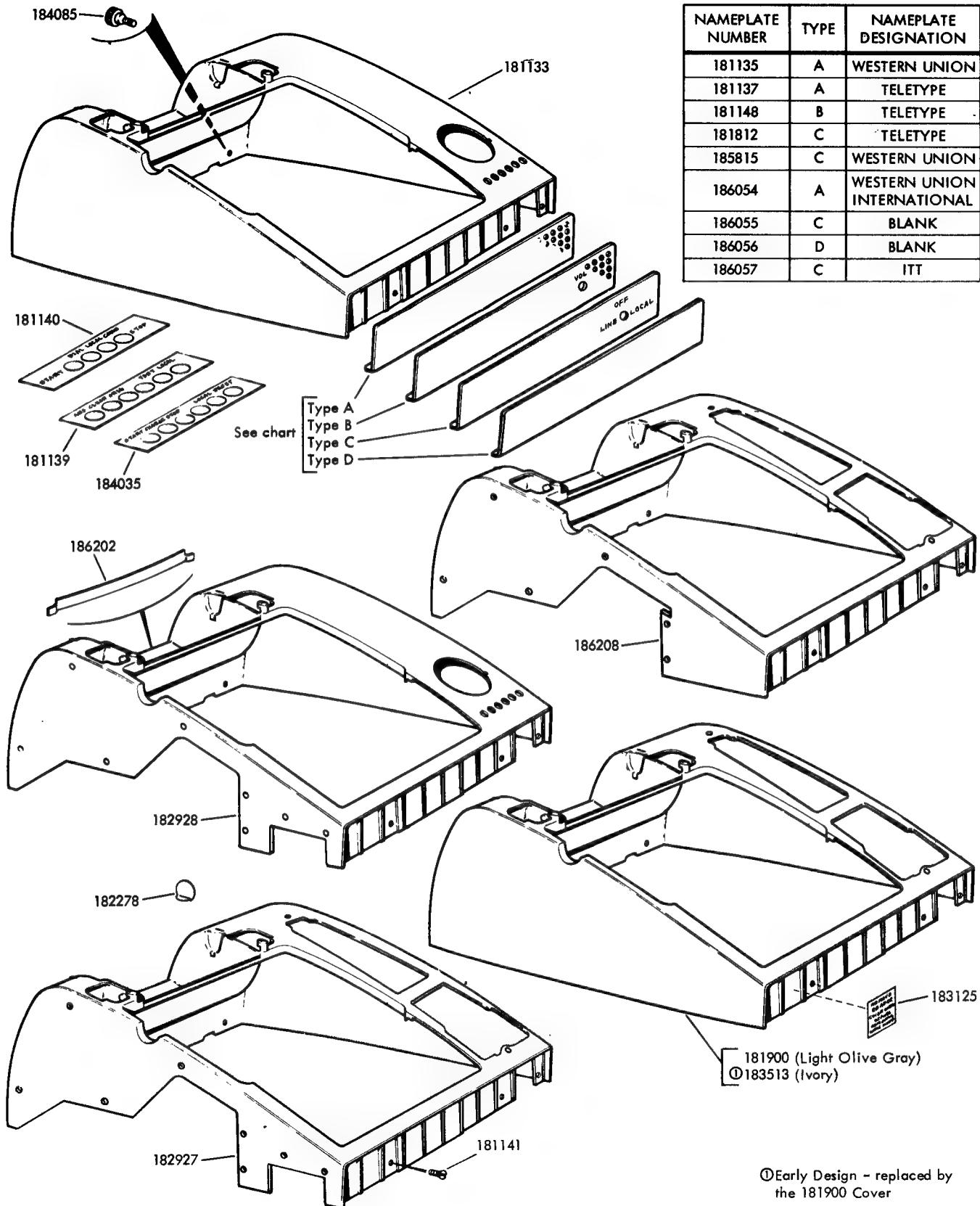
Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
182862	Lever w/Stud 3	182890	Plate 2	184095	Spring 2
182864	Lever w/Stud 3	182893	Bracket 3	184200	Bail 2
182872	Lever 3	182904	Spring, Compression 2	184283	Guidepost 4
182878	Lever 2	182908	Chute, Chad 3	185704	Depressor, Tape 3
182879	Lever 2	182909	Spring 3	185705	Modification Kit 3
182882	Link 2	182914	Bracket 3	185706	Bracket 3
182884	Lever w/Stud 3	182915	Extension 3	185776	Spring 2
182885	Lever w/Stud 3	182925	Washer, Flat 2,3	185777	Spring 2
182886	Lever w/Stud 3	182936	Arm w/Bushing 2	185846	Post 2,3
182887	Lever w/Stud 3	182966	Stud 4	185847	Post 3
182888	Lever w/Stud 3	182983	Block Assembly, Punch 3	185848	Plate 3
182889	Lever 2	182988	Spring, Punch Block 3	185890	Pushnut 3
				185891	Chute, Chad 3

33 COVER AND TABLE

PARTS

FIGURE	CONTENTS	PAGE
1	Printer Covers	2
2	Punch Cover and Base	3
3	Reader Cover and Base	4
4	Faceplates	5
5	Cover and Tape Storage Bin	6
6	Cabinet	7
7	Lid and Copyholder	8
8	183976 Adjustable Copyholder Assembly	9
9	182134, 182149, 184194 and 186480 Power Pack Assemblies	10
10	181720 Power Pack Assembly	10
11	184074 Outlet Box Assembly	11
12	183859 Modification Kit to Provide Paper Supply and Accumulating Shelf	12
13	186031 Rectifier Assembly	13
14	186226 Modification Kit to Provide Mobility for Cabinet Numerical Index	14 15

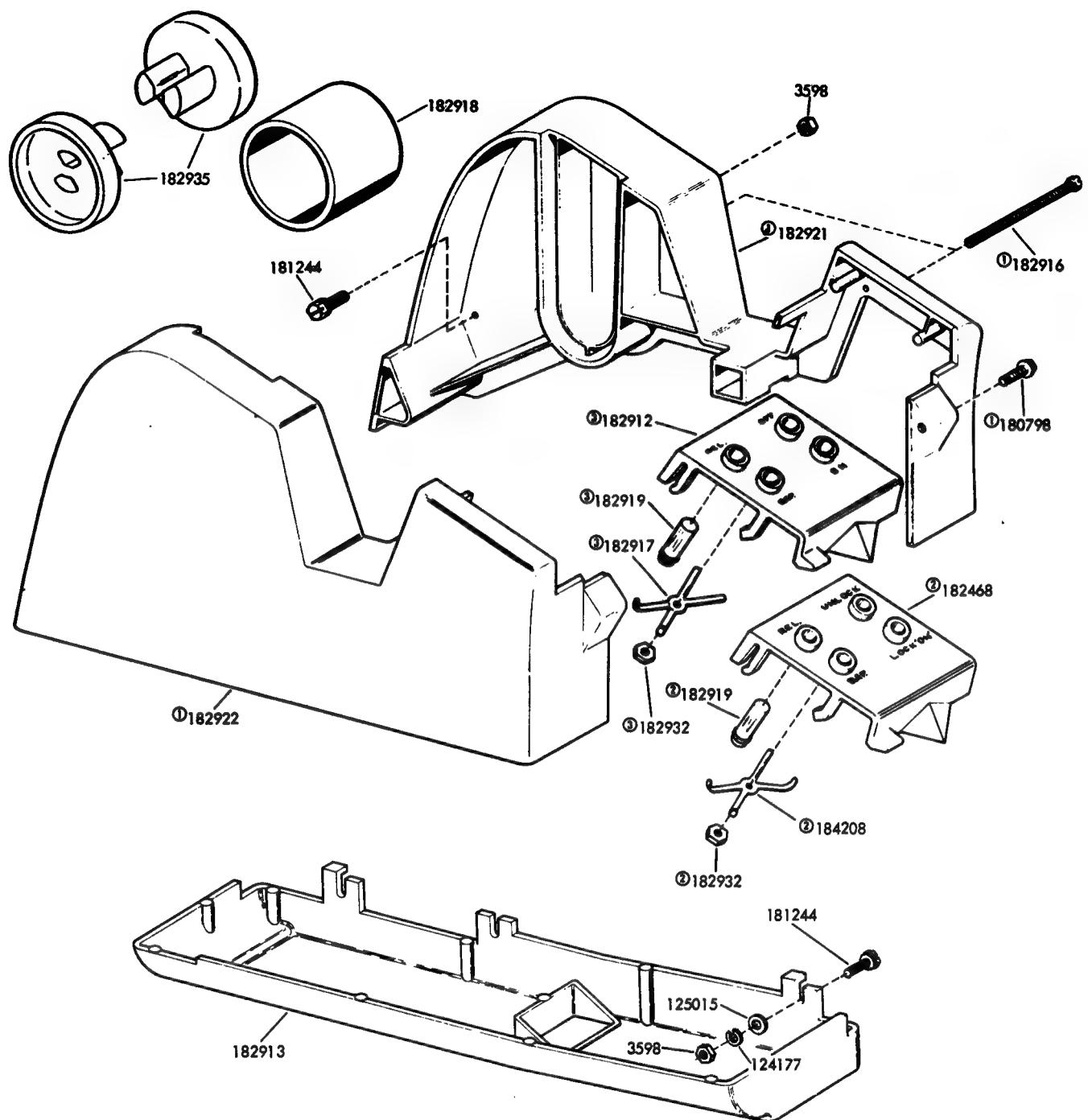
**Denotes a painted part.
HF-Light Olive Gray Smooth Vinyl



NAMEPLATE NUMBER	TYPE	NAMEPLATE DESIGNATION
181135	A	WESTERN UNION
181137	A	TELETYPE
181148	B	TELETYPE
181812	C	TELETYPE
185815	C	WESTERN UNION
186054	A	WESTERN UNION INTERNATIONAL
186055	C	BLANK
186056	D	BLANK
186057	C	ITT

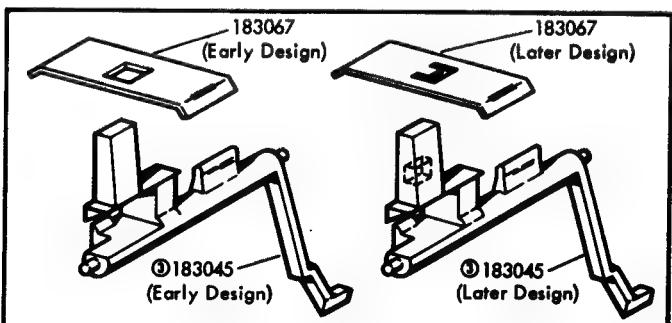
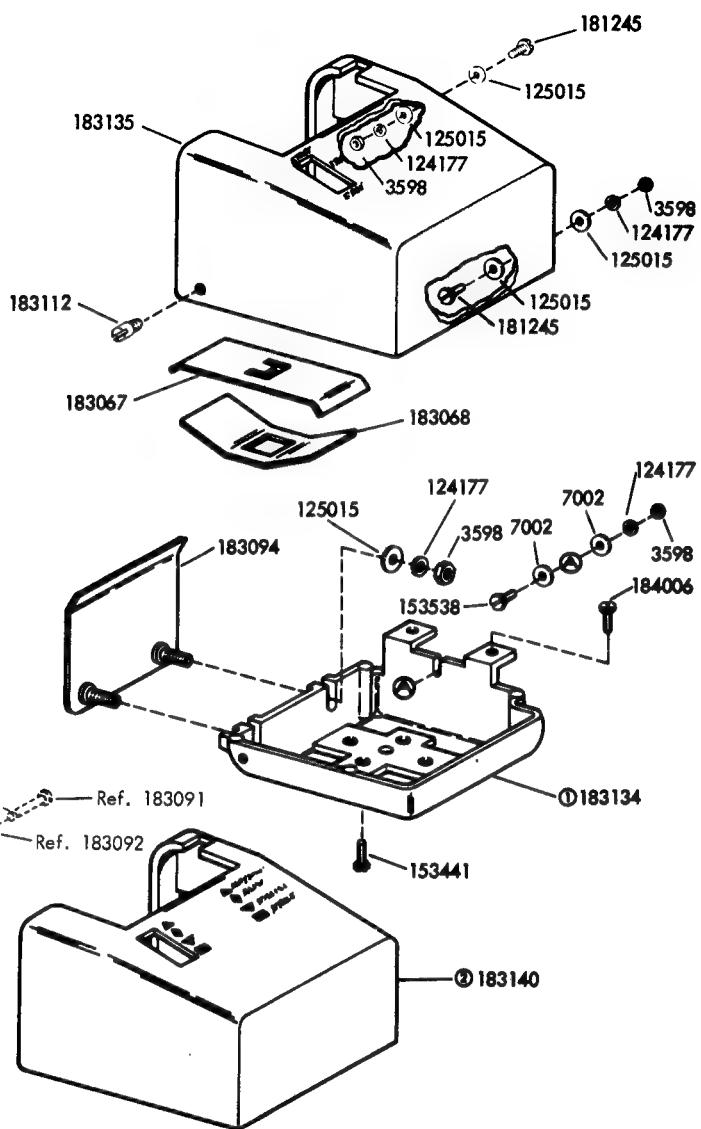
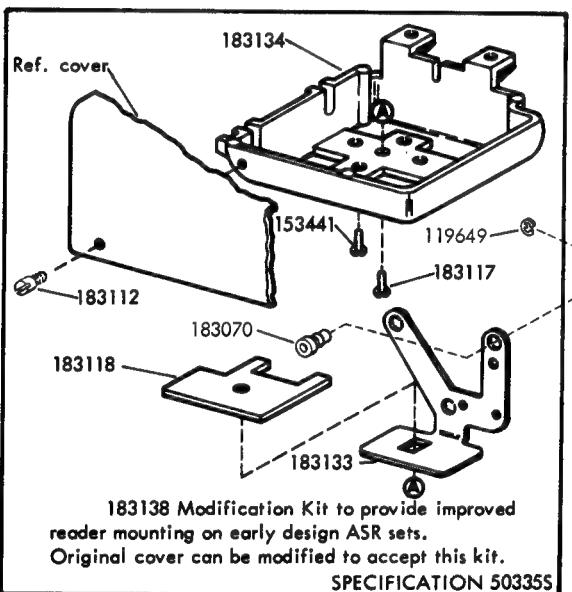
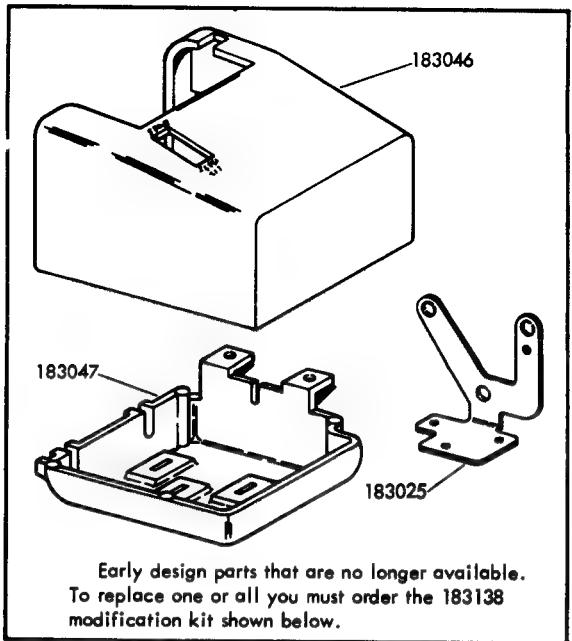
①Early Design - replaced by
the 181900 Cover

FIGURE 1. PRINTER COVERS



① 182926 Cover Assembly
 ② 184206 Lid Assembly (for automatic On-Off control)
 ③ 182109 Lid Assembly (for manual On-Off control)

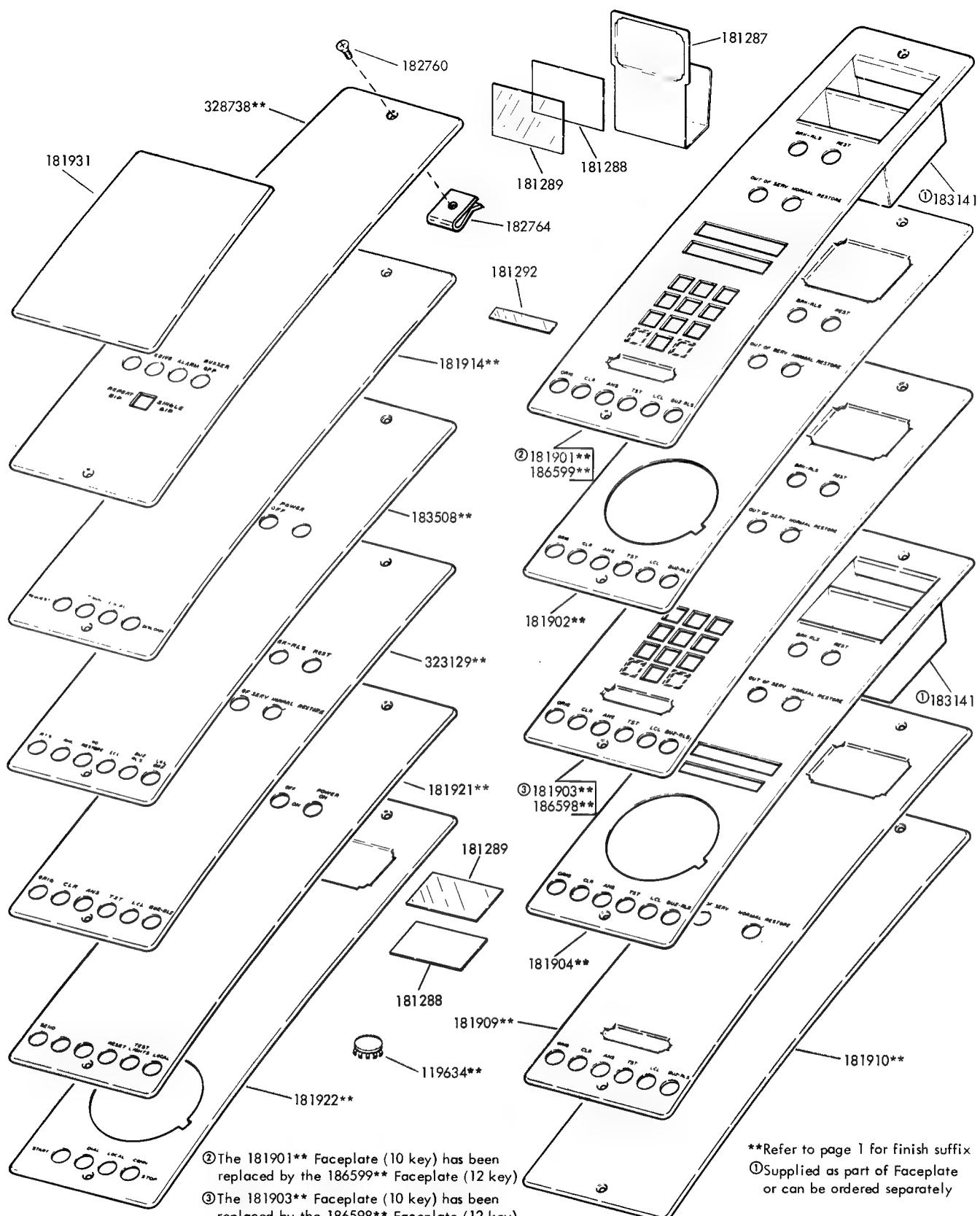
FIGURE 2. PUNCH COVER AND BASE



① A new 185700 laminated sheet steel base has been designed to replace the three individual castings mounting the typing unit with motor, keyboard and associated call control unit, the perforator, and the reader. However, the 183134 base (shown on this figure) is still available for replacement purposes

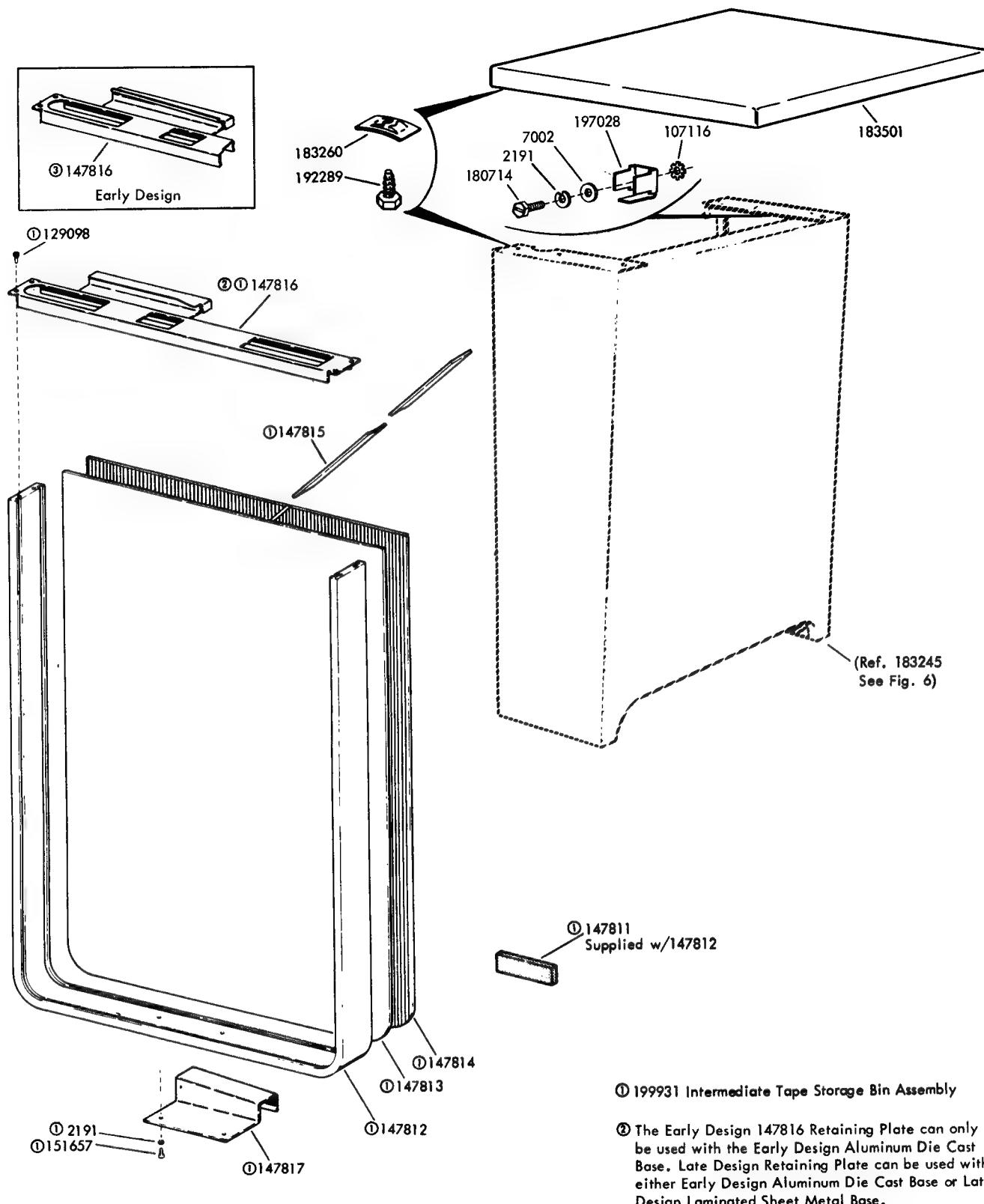
② Automatic reader control cover.
③ The 183067 shield and the 183045 start & stop lever have been redesigned but retain their original numbers. The new style lever can be used with the old style shield but the new style shield must be used with the new style lever

FIGURE 3. READER COVER AND BASE



**Refer to page 1 for finish suffix
①Supplied as part of Faceplate or can be ordered separately

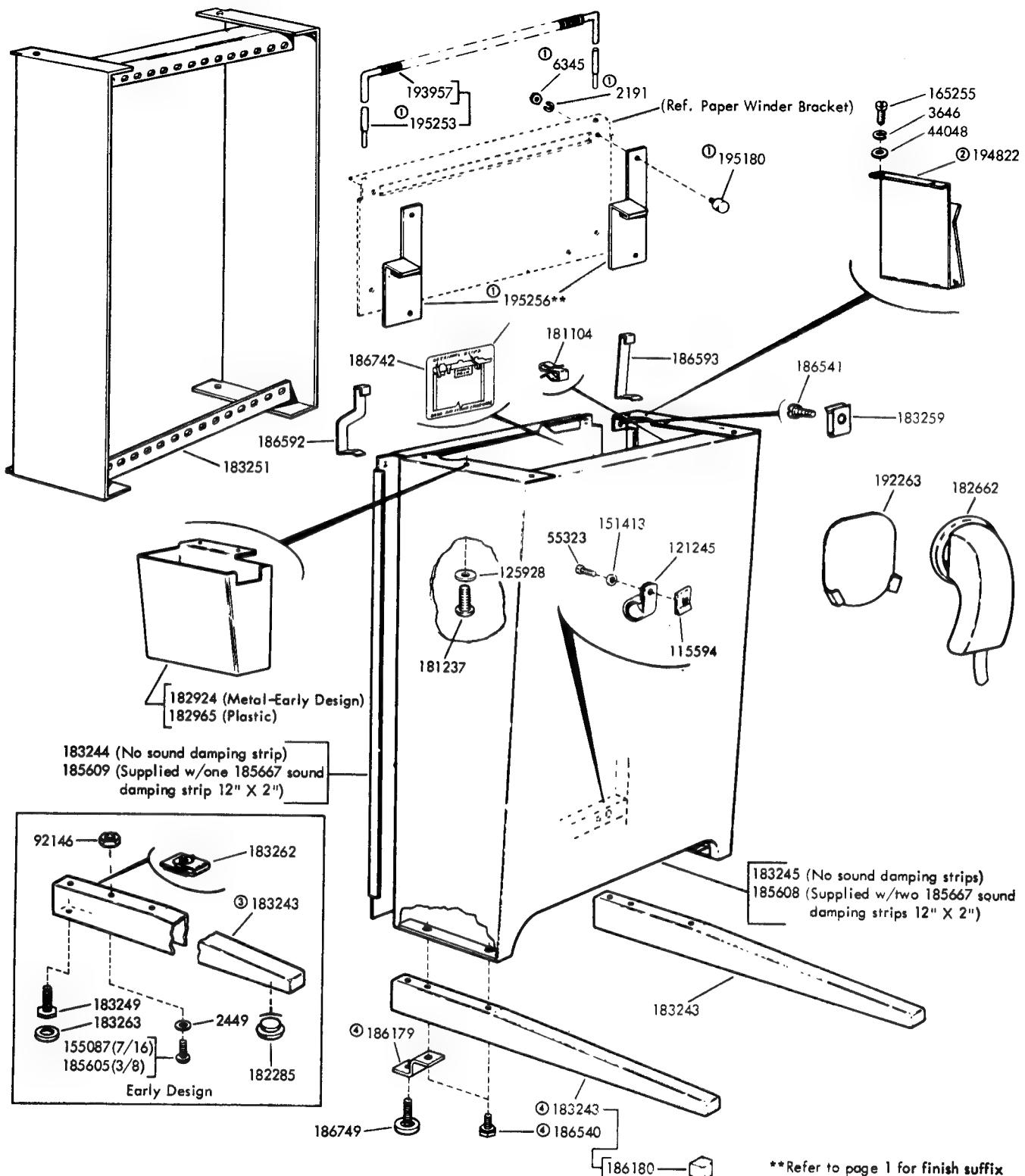
FIGURE 4. FACEPLATES



① 199931 Intermediate Tape Storage Bin Assembly

② The Early Design 147816 Retaining Plate can only be used with the Early Design Aluminum Die Cast Base. Late Design Retaining Plate can be used with either Early Design Aluminum Die Cast Base or Late Design Laminated Sheet Metal Base.

FIGURE 5. COVER AND TAPE STORAGE BIN



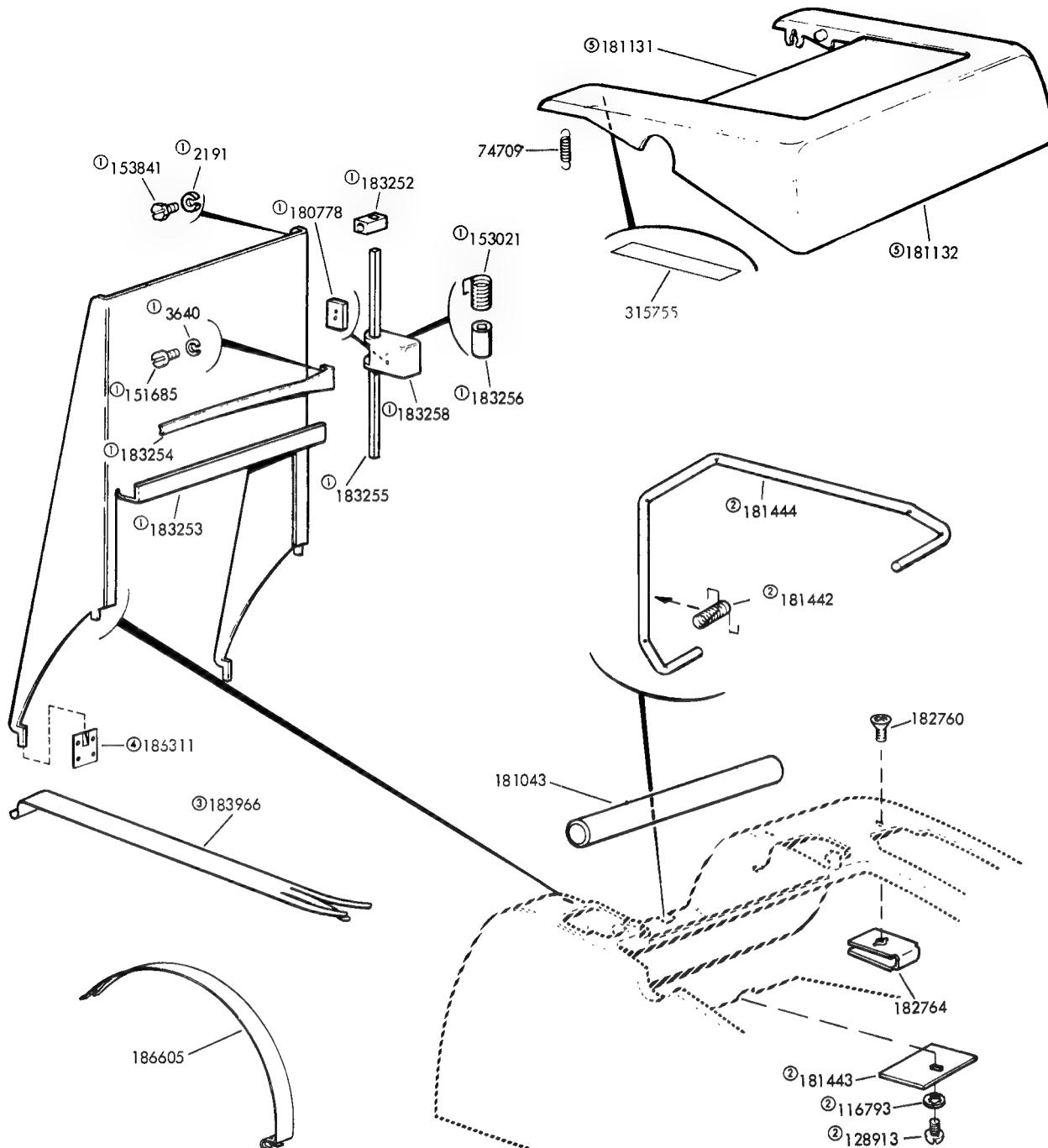
① 195259** Modification Kit to add Paper Winder to Cabinet

② The 194822 Directory Holder has been changed by including two 6 inch strips of double sided adhesive backed tape, eliminating the need for mounting hardware.

③ The Early Design 183243 Foot w/Brackets is no longer available. When replacing an Early Design Foot w/Brackets, order the 186203 Set of Parts.

④ 186203 Set of Parts to provide replacement Foot w/Bumper

FIGURE 6. CABINET



① 182036 Copyholder Assembly

② Used with Sets having Low Paper Alarm

③ No longer available. Order 186605 Paper Deflector

④ 186312 SOP to Provide Cover Repair Bracket for Copyholder

⑤ The 181131 Lid Window has been redesigned by adding nine holes to enable heat staking to the Lid rather than cementing as on the Early Design. Early and Late Design Lids w/ Window are interchangeable. If however, a Late Design Lid w/Window needs a replacement Window, a 181132 Lid w/Window must be ordered.

FIGURE 7. LID AND COPYHOLDER

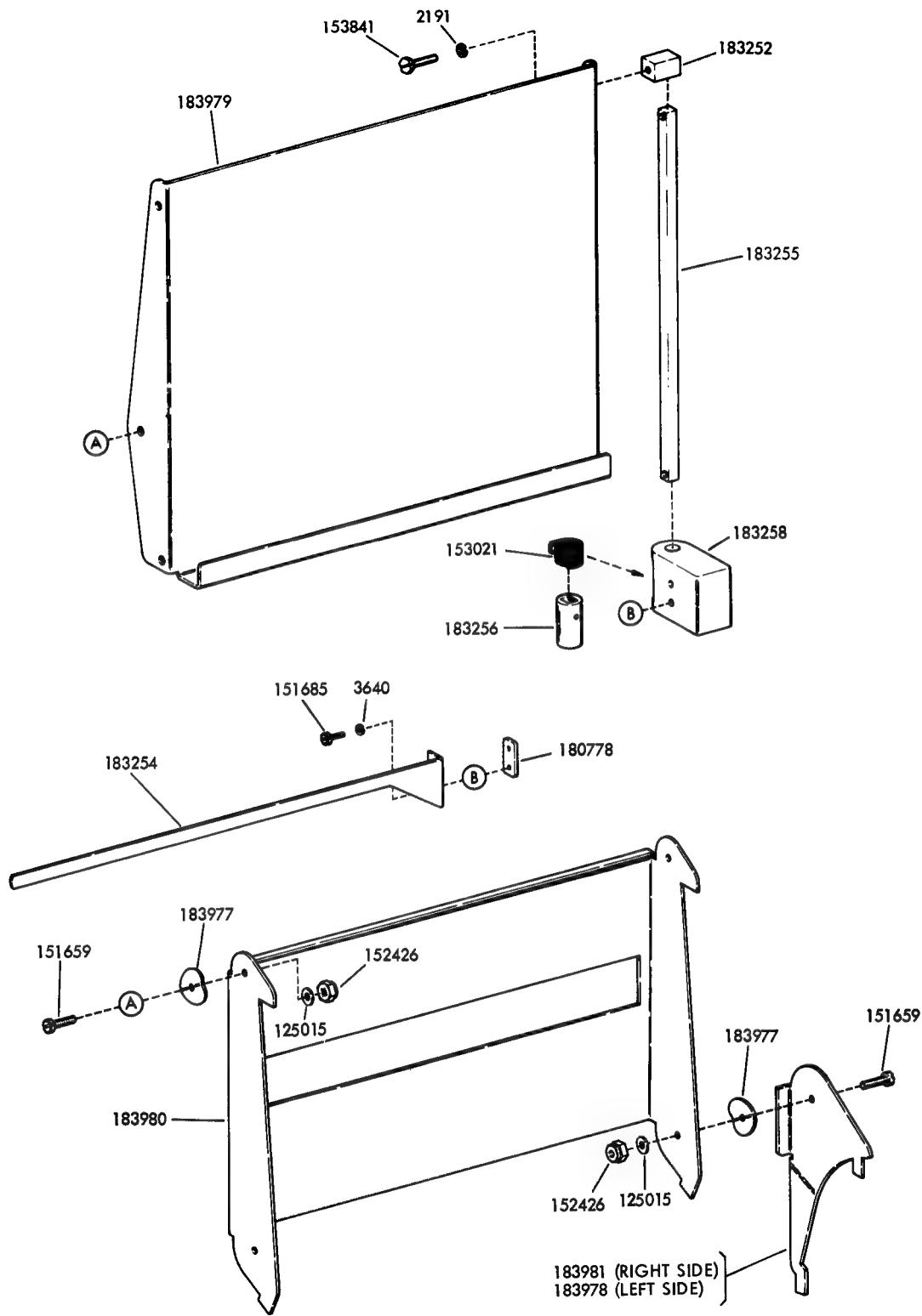


FIGURE 8. 183976 ADJUSTABLE COPYHOLDER ASSEMBLY

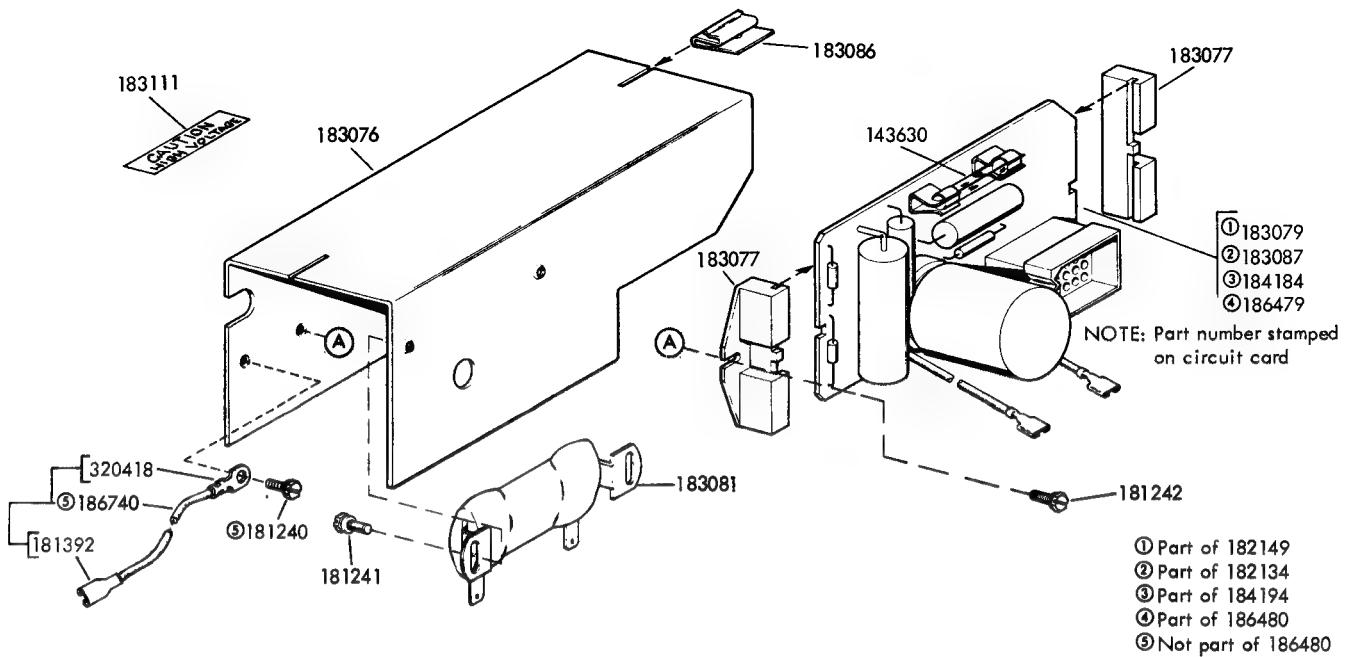


FIGURE 9. 182134, 182149, 184194 AND 186480 POWER PACK ASSEMBLIES

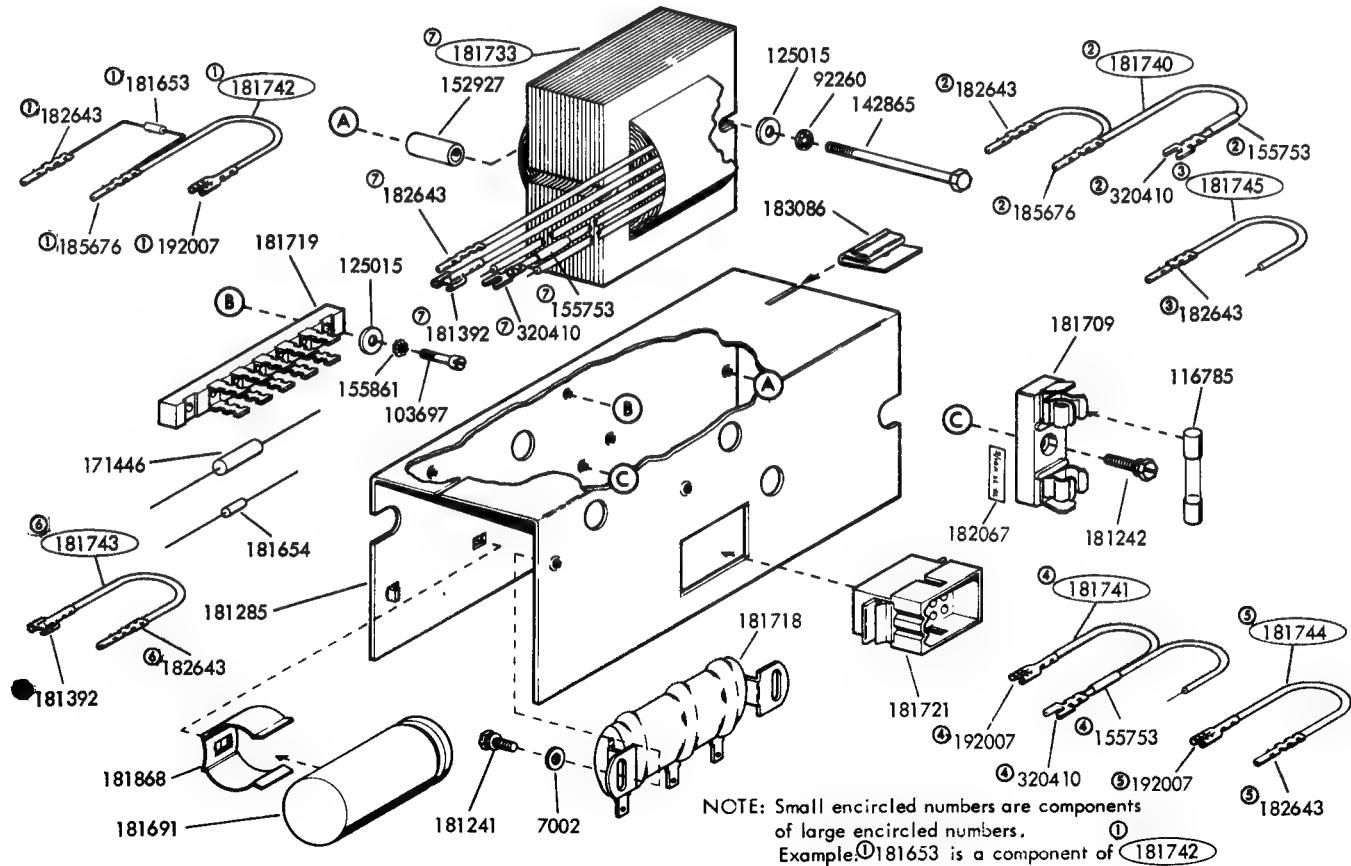


FIGURE 10. 181720 POWER PACK ASSEMBLY

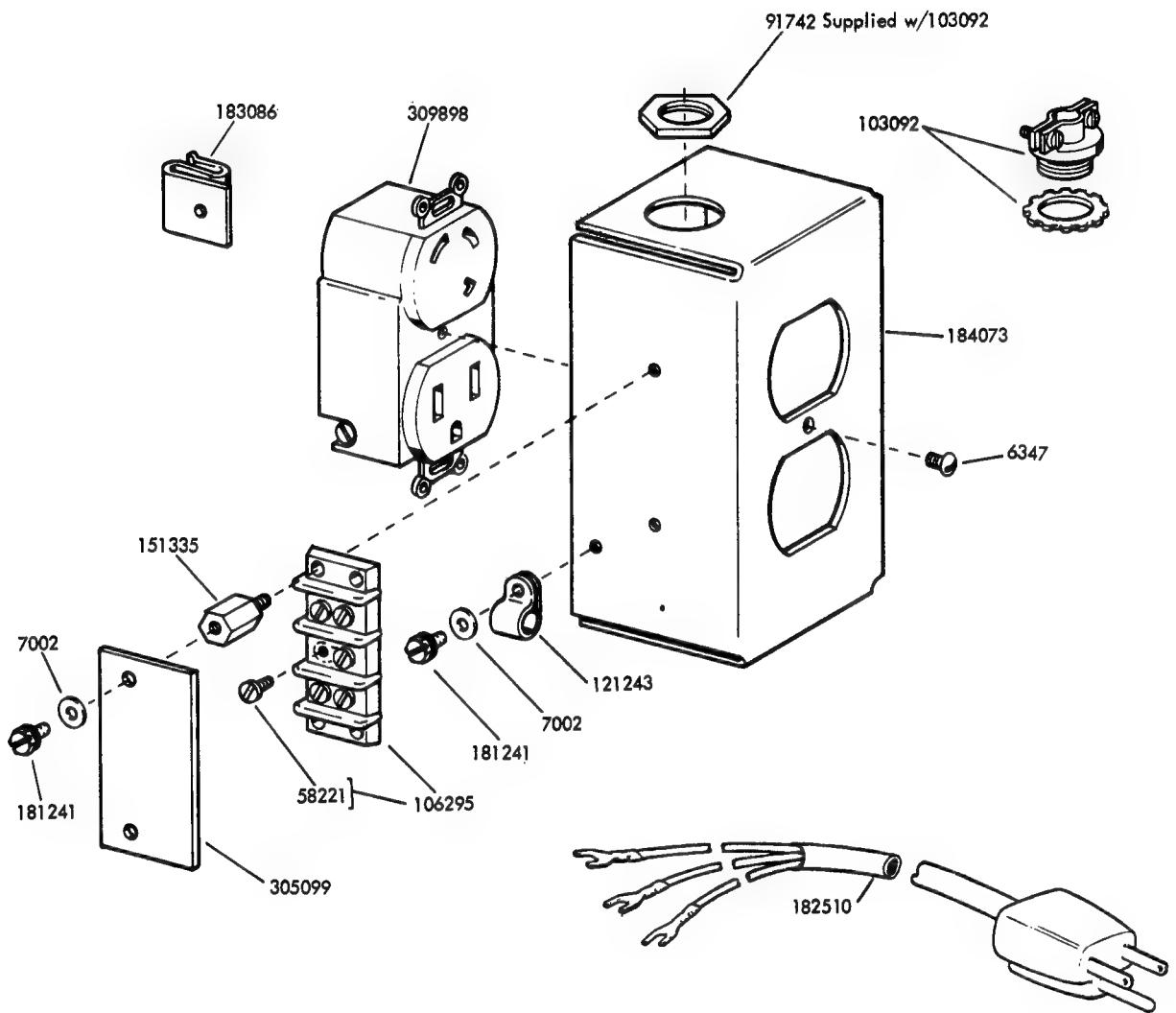


FIGURE 11. 184074 OUTLET BOX ASSEMBLY

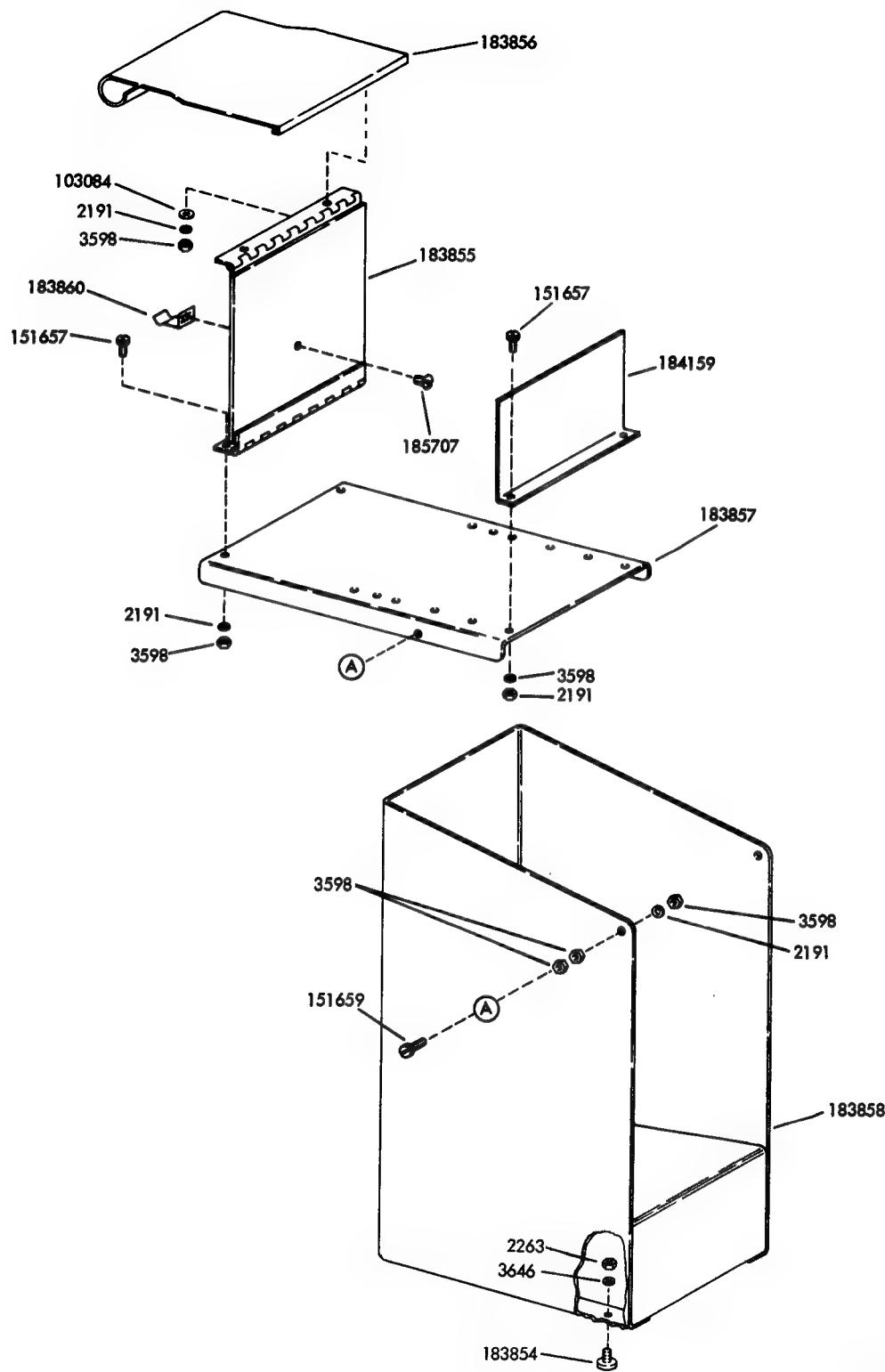
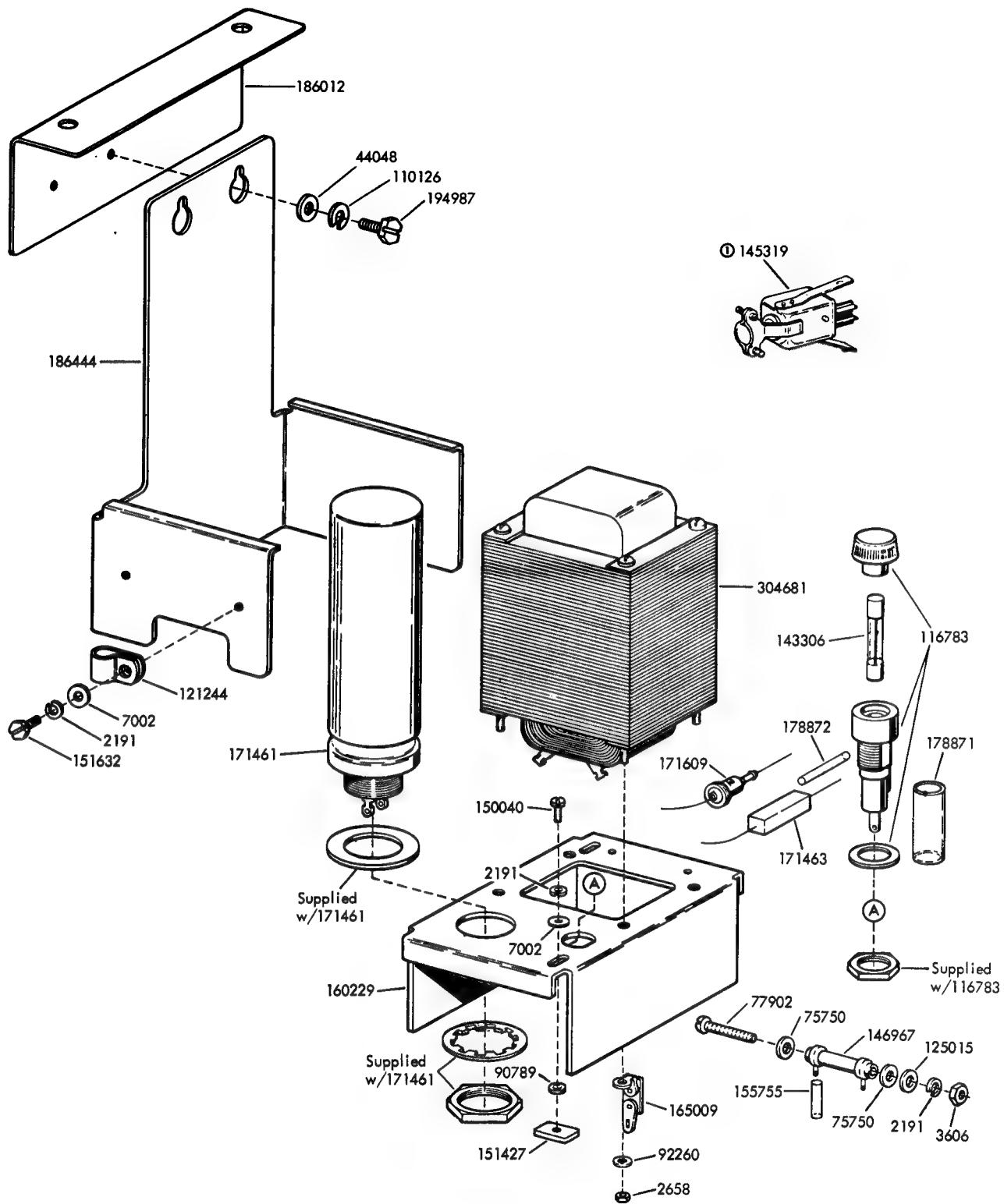
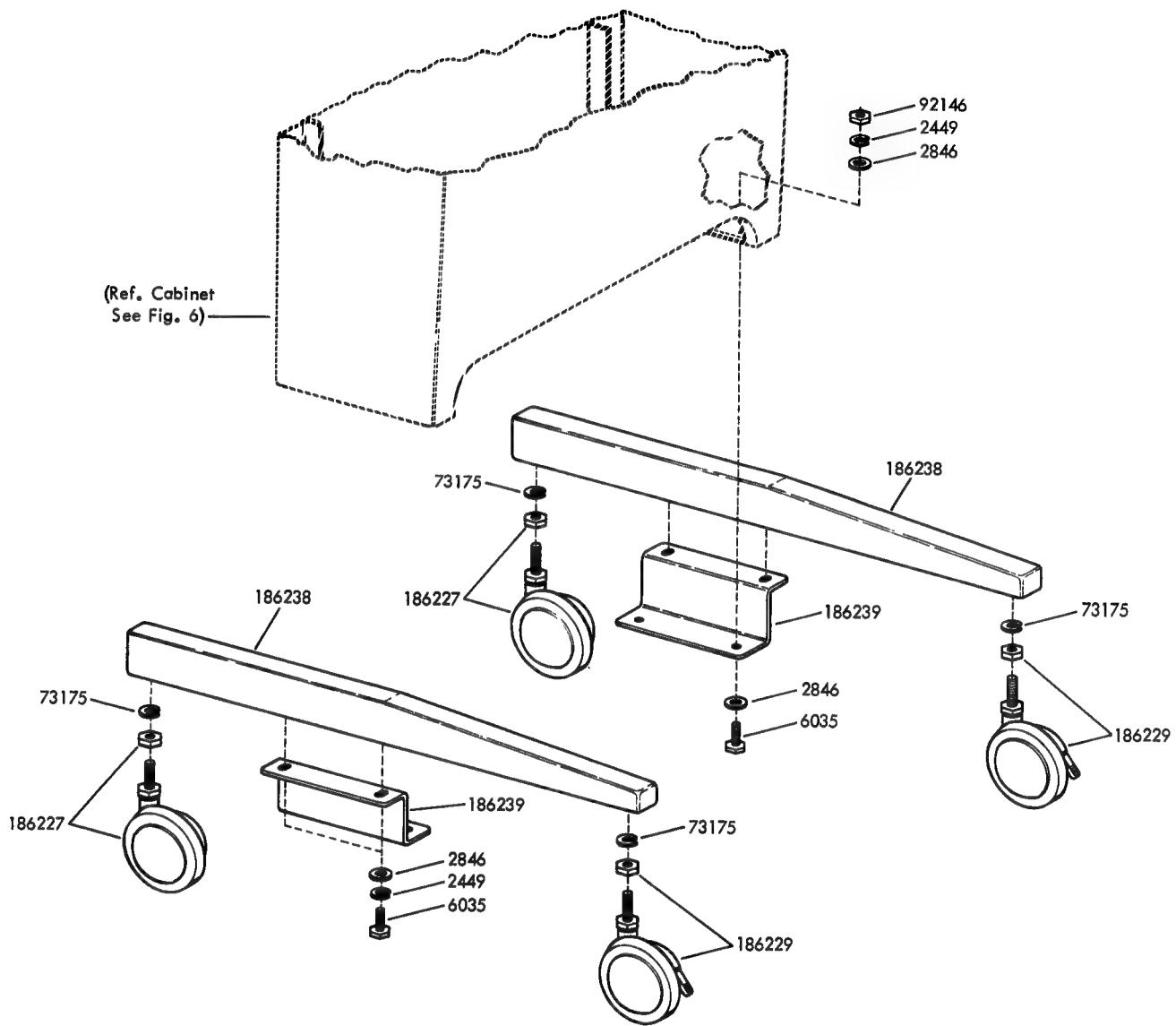
Specification 50433S

FIGURE 12. 183859 MODIFICATION KIT TO PROVIDE PAPER SUPPLY AND ACCUMULATING SHELF



① 186032 Cable Assembly

FIGURE 13. 186031 RECTIFIER ASSEMBLY



Specification 506265

FIGURE 14. 186226 MODIFICATION KIT TO PROVIDE MOBILITY FOR CABINET

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
2191	Lockwasher 6,7,8,9,12,13	143630	Fuse, .75 Amp 10	181043	Spindle, Paper Roll 8
2263	Nut, 8-32 Hex 12	145319	Receptacle, 4 Pt Plug 13	181104	Clip, Cable 7
2449	Lockwasher 7,14	146967	Resistor, 750 Ohm 13	181131	Window, Lid 8
2658	Nut, 6-32 Hex 13	147811	Spacer, .250" Thk 6	181132	Lid w/Window 8
2846	Washer, Flat 14	147812	Frame, Tape Bin 6	181133	Cover 2
3598	Nut, 6-40 Hex 3,4,12	147813	Window, Left Side 6	181135	Nameplate 2
3606	Nut, 6-40 Hex 13	147814	Window, Right Side 6	181137	Nameplate 2
3640	Lockwasher 8,9	147815	Divider, Tape Bin 6	181139	Label, Designation (Bell) 2
3646	Lockwasher 7,12	147816	Plate, Retaining 6	181140	Label, Designation (W.U.) 2
6035	Screw, 1/4-20 x 5/8 Hex 14	147817	Guide, Tape Bin 6	181141	Screw, 8-32 Spl 2
6345	Nut, 6-32 Hex 7	150040	Screw, 6-40 5/8 Fil 13	181148	Nameplate 2
6347	Screw, 6-32 x 3/8 Rd 11	151335	Stud 11	181237	Screw, 1/4-14 Self-Tapping 7
7002	Washer, Flat 4,6,10,11,13	151413	Washer, Flat 7	181240	Screw w/Lockwasher, 6-40 x 3/16 Hex 10
44048	Washer, Flat 13	151427	Plate, Clamp 13	181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 10,11
55323	Screw, 8-32 x 1/2 Rd 7	151632	Screw, 6-40 x 3/8 Hex 13	181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 10
58221	Screw, 6-32 x 1/4 Fil 11	151657	Screw, 6-40 x 1/4 Fil 6,12	181244	Screw w/Lockwasher, 6-40 x 7/16 Hex 3
73175	Lockwasher 14	151659	Screw, 6-40 x 1/2 Fil 9,12	181245	Screw w/Lockwasher, 6-40 x 1/2 Hex 4
74709	Spring 8	151685	Screw, 4-40 x 5/16 Fil 8,9	181285	Cover, Mounting 10
75750	Washer, Insulating 13	152426	Nut, 6-40 Self-Locking 9	181287	Holder, Card 5
77902	Screw, 6-40 x 2-3/8 Rd 13	152927	Bushing 10	181288	Label, White 5
90789	Washer, Flat 13	153021	Spring, Torsion 8,9	181289	Window, Plastic 5
91742	Nut, Lock 11	153441	Screw, 10-32 x 7/16 Hex 4	181292	Window, Plastic 5
92146	Nut, 1/4-20 Hex 7,14	153538	Screw, 6-40 x 7/16 Hex 4	181392	Terminal, Tab Type 10
92260	Lockwasher 10,13	153841	Screw, 6-40 x 9/16 Hex 8,9	181442	Spring, Torsion 8
103084	Washer, Flat 12	155087	Screw, 1/4-20 x 7/16 Rd 7	181443	Plate, Clamp 8
103092	Connector, Cord 11	155753	Sleeve, 1/8 ID x 1/2" Lg	181444	Rod, Sensing 8
103697	Screw, 4-40 x 7/16 Fil 10	155755	Insulating 10	181653	Diode 10
106295	Block, Terminal 11	155861	Sleeve, 11/64 ID x 5/8"	181654	Diode 10
107116	Lockwasher 6	160229	Lg Insulating 13	181691	Capacitor, 150 MFD 10
110126	Lockwasher 13	165009	Lockwasher 10	181709	Holder, Fuse 10
115594	Nut, Speed 7	165255	Plate, Mounting 13	181718	Resistor, 2,000 - 10,000 Ohms 10
116783	Holder, Fuse 13	171446	Terminal 13	181719	Strip, Terminal 10
116785	Fuse, .3 Amp 10	171461	Screw, No. 8 Spl 7	181720	Power Supply 1,10
116793	Lockwasher 8	171463	Resistor, 120 Ohm 10	181721	Connector, 12 Pt Plug
119634**	Button, Plug 5	171609	Capacitor, 900 MFD 13	181721	Type 10
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